THE FIFTY-NINTH
ANNUAL ANNOUNCEMENT

Recorder's File Do not take away

# RUSH MEDICAL COLLEGE

IN AFFILIATION WITH

## THE UNIVERSITY OF CHICAGO

---

## TABLE OF CONTENTS

History, Plan of Government, and Location - - - - 4
Calendar of Rush Medical College - - - - - - 5
Calendar of the University of Chicago - - - - - 6
Board of Trustees of Rush Medical College - - - - 7
The Faculty of Rush Medical College - - - - - - 7
The Transfer of the Courses of the Freshman and Sophomore Years to the University of Chicago - - - - - 11
Laboratories, Equipment, and Libraries - - - - - 12
Buildings, Equipment, and Hospital Faculties at Rush Medical College - - - - - - - - - - - - - 14
Requirements for Admission - - - - - - - - - 15
Admission to Advanced Standing - - - - - - - 18
Requirements for Graduation - - - - - - - - 18
General Information for Students entering the Freshman and Sophomore Classes of the Medical Courses - - - 19
General Information for Students entering the Junior and Senior Classes - - - - - - - - - - - 21
The Quarter System - - - - - - - - - - - 23
Graduate Courses in Medicine for Physicians and Advanced Students - - - - - - - - - - - - 24
The Degrees of S.B., A.B., and Ph.B. - - - - - - 24
The Work of the Medical Course for the Freshman and Sophomore Years - - - - - - - - - - 25
Department of Anatomy - - - - - - - - - - 27
Department of Physiology - - - - - - - - - 33
Department of Chemistry, Pharmacy, and Toxicology - - 35
Department of Therapeutics and Preventive Medicine - - 38
Department of Pathology and Bacteriology - - - - 39
Department of Medicine - - - - - - - - - - 41
Department of Surgery - - - - - - - - - - 44
Department of Obstetrics and Gynecology - - - - 45
Department of the Diseases of the Chest, Throat, and Nose 47
Department of Ophthalmology and Otology - - - - 49
Department of Skin, Genito-Urinary, and Venereal Diseases 50
General Lectures - - - - - - - - - - - - 51
Fellowships, Hospital Internes, and Prizes - - - - 51
Fellowships and Scholarships at the University of Chicago - 52
Medical Societies - - - - - - - - - - - - 53
Alumni Association - - - - - - - - - - - 54
Matriculates for the Session of 1900–1901 - - - - - 55

---

CHICAGO
The University of Chicago Press
1901

Digitized by the Internet Archive
in 2012 with funding from
CARLI: Consortium of Academic and Research Libraries in Illinois

http://archive.org/details/annualannounceme58unse

# THE FIFTY-NINTH ANNUAL ANNOUNCEMENT

# HISTORY, PLAN OF GOVERNMENT, AND LOCATION

Rush Medical College is one of the oldest institutions of learning in the Northwest, having been chartered by a special act of the Legislature of the State of Illinois, in February 1837. It was founded by the late Daniel Brainard, who was its first president. The first course of lectures was delivered in the second story of the frame building on Clark street, near Randolph, in 1843. In 1844 a college building was erected at the corner of Dearborn avenue and Indiana street, a structure which was remodeled and enlarged in 1855. In 1867 a larger building was erected on the site of the old one. This edifice was destroyed in the great fire of 1871, and for three years the college occupied a temporary amphitheater in the grounds of the Cook County Hospital, then located at Arnold and Eighteenth streets. In 1875 the present Clinical Building was erected, and in 1893 a laboratory building which greatly increased the facilities for practical instruction, was erected on the south side of Harrison street opposite the Clinical Building. The facilities for clinical instruction are largely increased the present year by the addition of the Senn Building, seven stories in height, adjoining the Clinical Building on the east. In 1887 the college became the Medical Department of the Lake Forest University, retaining, however, its autonomy. This relation was dissolved by mutual consent in April 1898, and in the same month the present relations of affiliation with the University of Chicago were established. In 1883 the Presbyterian Hospital, adjoining the college, was established, and the building then erected for the hospital was subsequently enlarged by the addition of the Daniel A. Jones Memorial. Rush Medical College is one of the several institutions officially recognized by the Royal Colleges of Physicians and Surgeons of London, England.

## GOVERNMENT

The government of the college is vested in a "perpetual Board of Trustees," entirely distinct from the teaching force of the College, which was constituted by a special act of the General Assembly of Illinois, in February 1837, and of which the Governor of the State, the Lieutenant-Governor, and the Speaker of the House of Representatives are members *ex officio.*

This Board is responsible to the state for the careful management of the financial and educational interests of the college and for the discipline of its students.

## AFFILIATION

By the terms of affiliation with the University of Chicago, the Board of Trustees is composed of members not belonging to the teaching force of the college. This Board assumes the financial management and appoints the Faculty, but delegates to the latter the control of the educational work subject to the rules of the University and the approval of the Trustees. The affiliation thus assures the maintenance of a high order of instruction and a steady advance in modern educational methods. The University offers three fellowships to graduates of the college, yielding the University fees and entitling the holders to the privileges of its biological laboratories. It provides for granting the degree of Bachelor of Science to students of the college who have had suitable preliminary education and who comply with the University regulations established for that degree. All of the courses of the first two years of the medical curriculum are, after July 1, 1901, offered at the University only.

## LOCATION

The college is situated on West Harrison street, between Hermitage avenue and Wood street, and can be reached by any of the trains of the Metropolitan Elevated Railway, the Marshfield avenue station of which is three blocks east of the college; by the Ogden avenue or Van Buren street Electric lines, which cross Wood street two blocks north of the college; or by the Harrison street Electric Car line which runs on West Harrison street.

The Telephone number of the college is West 113.

Address correspondence to RUSH MEDICAL COLLEGE,
CHICAGO, ILLINOIS.

## LOCATION OF THE UNIVERSITY OF CHICAGO

The University is situated on the Midway Plaisance, between Ellis and Lexington Avenues, and can be reached by the Cottage Grove Avenue cable cars (from Wabash Avenue), by the Illinois Central Railroad to South Park Station, or by the Sixty-third Street electric cars from the Englewood railway stations.

A Baggage Express Company and the Western Union Telegraph Company have offices at the University.

The telephone number of the University is Oakland–426.

## CALENDAR OF RUSH MEDICAL COLLEGE

| | **1901** |
|---|---|
| June 21, 22, 24, and 25 Friday, Saturday Monday, Tuesday | Examinations for admission |
| July 1, Monday | The fiscal year of the College begins |
| July 1, Monday | The Summer Quarter begins |
| July 4, Thursday | A holiday |
| Aug. 12, Monday | Second Term, Summer Quarter begins |
| Sept. 20, 21, 23, and 24 Friday, Saturday Monday, Tuesday | Examination for Admission |
| Sept. 19. 20, and 21 Thursday, Friday, Saturday | Quarterly Examinations |
| Sept. 21, Saturday | Summer Quarter ends |
| Sept. 20–30 | Quarterly Recess. |
| Oct. 1, Tuesday | Autumn Quarter begins |
| Nov. 11, Monday | Second Term, Autumn Quarter begins |
| Nov. 28, Thurday | Thanksgiving day — a holiday |
| Dec. 19, 20, and 21 Thursday, Friday, Saturday | Quarterly Examinations |
| Dec. 21, Saturday | Autumn Quarter ends |
| Dec. 13, 14, 16, and 18 Friday, Saturday, Monday, Tuesday | Examinations for Admission |
| Dec. 21–31 | Quarterly Recess |
| | **1902** |
| Jan. 1, Wednesday | New Year's Day — a holiday.<br>Winter Quarter begins |

| | **1902** |
|---|---|
| Feb. 12, Wednesday | Lincoln's Birthday — a holiday |
| Feb. 13, Thursday | Second Term, Winter Quarter begins |
| Feb. 22, Saturday | Washington's Birthday — a holiday. |
| March 20, 21, and 22 Thursday, Friday, and Saturday | Quarterly Examinations |
| March 22, Saturday | Winter Quarter ends |
| March 22–31 | Quarterly Recess. |
| April 1, Tuesday | Spring Quarter begins. |
| May 12, Monday | Second Term, Spring Quarter begins |
| May 30, Friday | Decoration Day — a holiday |
| June 12, 13, and 14 Thursday, Friday, and Saturday | Quarterly Examinations |
| June 16, Monday | Special Clinics for the Alumni Association; Class-Day Exercises of the Graduating Class |
| June 17, Tuesday | Special Clinics; Annual Business Meeting of the Alumni Association |
| June 18, Wednesday | |
| 3:00 P.M. | Graduating Exercises |
| 7:00 P.M. | Annual Reception and Dinner of the Faculty and Alumni<br>Spring Quarter ends |

# CALENDAR OF THE UNIVERSITY OF CHICAGO

THE MEETINGS OF THE BOARD OF TRUSTEES ARE HELD ON THE SECOND TUESDAY OF EACH MONTH.

## 1901

| | | |
|---|---|---|
| June 14 | Friday | Junior College Day. |
| June 15 | Saturday | Class and Alumni Day. |
| June 17 | Monday | Matriculation and Registration of incoming students.<br>Summer Meeting of the *University Congregation.* |
| June 18 | Tuesday | Founder's Day. — Summer Meeting of the *University Convocation.* |
| June 19 | Wednesday | First Term of Summer Quarter begins.<br>Lectures and Recitations for the Summer Quarter begin. |
| June 21 | Friday | Examinations for Admission to the Junior Colleges. |
| June 22 | Saturday | |
| June 24 | Monday | |
| June 25 | Tuesday | |
| June 23 | Sunday | The Congregation Sermon. |
| July 4 | Thursday | Independence Day; a holiday. |
| July 26 | Friday | Examinations for the First Term of the Summer Quarter.<br>First Term of Summer Quarter ends |
| July 27 | Saturday | Second Term of Summer Quarter begins. |
| Aug. 30 | Friday | Examinations for Second Term of the Summer Quarter.<br>Autumn Meeting of the *University Congregation.* |
| Aug. 31 | Saturday | Autumn Meeting of the *University Convocation.*<br>Second Term of Summer Quarter ends. |
| Sept. 1-30 | | Summer Recess. |
| Sept. 20 | Friday | Autumn Examination for admission to the *Junior Colleges.* |
| Sept. 21 | Saturday | |
| Sept. 23 | Monday | |
| Sept. 24 | Tuesday | |
| Oct. 1 | Tuesday | First Term of Autumn Quarter begins.<br>Matriculation and Registration of incoming students. |
| Nov. 11 | Monday | First Term of Autumn Quarter ends. |
| Nov. 12 | Tuesday | Second Term of Autumn Quarter begins. |
| Nov. 28 | Thursday | Thanksgiving Day; a holiday. |
| Nov. 29 | Friday | A holiday. |
| Dec. 3 | Tuesday | Registration of resident students for the Winter and Spring Quarters. |
| Dec. 4 | Wednesday | |
| Dec. 5 | Thursday | |
| Dec. 6 | Friday | |
| Dec. 13 | Friday | Winter Examination for admission to the *Junior Colleges.* |
| Dec. 14 | Saturday | |
| Dec. 16 | Monday | |
| Dec. 17 | Tuesday | |
| Dec. 15 | Sunday | Convocation Sunday. |
| Dec. 16 | Monday | Winter Meeting of the *University Congregation.* |
| Dec. 17 | Tuesday | Winter Meeting of the *University Convocation.* |
| Dec. 18 | Wednesday | Quarterly Examinations. |
| Dec. 19 | Thursday | |
| Dec. 20 | Friday | |
| Dec. 20 | Friday | Second Term of Autumn Quarter ends. |
| Dec. 21-31 | | Quarterly Recess. |

## 1902

| | | |
|---|---|---|
| Jan. 1 | Wednesday | New Year's Day; a holiday.<br>First Term of Winter Quarter begins. |
| Jan. 2 | Thursday | Matriculation and Registration of incoming students. |
| Jan. 5 | Sunday | The Congregation Sermon. |
| Feb. 11 | Tuesday | First Term of Winter Quarter ends. |
| Feb. 12 | Wednesday | Second Term of Winter Quarter begins.<br>Lincoln's Birthday; a holiday. |
| Feb. 22 | Saturday | Washington's Birthday; a holiday. |
| Mar. 1 | Friday | Last Day for receiving applications for fellowships. |
| Mar. 16 | Sunday | Convocation Sunday. |
| Mar. 17 | Monday | Spring Meeting of the *University Congregation.* |
| Mar. 18 | Tuesday | Spring Meeting of the *University Convocation.*<br>Annual Assignment of *Fellowships.* |
| Mar. 19 | Wednesday | Quarterly Examinations. |
| Mar. 20 | Thursday | |
| Mar. 21 | Friday | |
| Mar. 21 | Friday | Second Term of Winter Quarter ends. |
| Mar. 22-31 | | Quarterly Recess. |
| April 1 | Tuesday | First Term of Spring Quarter begins.<br>Matriculation and Registration of incoming students. |
| April 6 | Sunday | The Congregation Sermon. |
| May 12 | Monday | First Term of Spring Quarter ends. |
| May 13 | Tuesday | Second Term of Spring Quarter begins. |
| May 30 | Friday | Memorial Day; a holiday. |
| June 3 | Tuesday | Registration of resident students for the Summer and Autumn Quarters. |
| June 4 | Wednesday | |
| June 5 | Thursday | |
| June 6 | Friday | |
| June 12 | Thursday | Quarterly Examinations. |
| June 13 | Friday | |
| June 14 | Saturday | |
| June 15 | Sunday | Convocation Sunday. |
| June 16 | Monday | Alumni Day.<br>Summer Meeting of the *University Congregation.* |
| June 17 | Tuesday | Summer Meeting of the *University Convocation.*<br>Second Term of Spring Quarter ends. |
| June 20 | Friday | Summer Examination for admission to the *Junior Colleges.* |
| June 21 | Saturday | |
| June 23 | Monday | |
| June 24 | Tuesday | |
| June 24 | Tuesday | Annual Meeting of the Board of Trustees. |

## BOARD OF TRUSTEES OF RUSH MEDICAL COLLEGE

DE LASKIE MILLER, *President*
FRANK B, TOBEY, *Vice President*
CHARLES L. HUTCHINSON, *Treasurer*
T. W. GOODSPEED, *Secretary*

WILLIAM R. HARPER
H. H. KOHLSAAT
JAMES H. ECKELS
ERNEST A. HAMILL
FREDERICK A. SMITH
ANDREW McLEISH
A. A. SPRAGUE
JESSE A. BALDWIN
J. J. GLESSNER

His Excellency RICHARD YATES, *Governor*
The Hon. WILLIAM A. NORTHCOTT, *Lieutenant-Governor* } *ex officio*
The Hon. LAURENCE Y. SHERMAN, *Speaker of the House of Representatives*

## REPRESENTING THE UNIVERSITY

WILLIAM RAINEY HARPER, Ph.D., D.D., LL.D., President
ALBION W. SMALL, Ph.D., Director of the Affiliated Work of the University

## THE FACULTY OF RUSH MEDICAL COLLEGE

DE LASKIE MILLER, A.M., M.D., Ph.D., Emeritus Professor of Obstetrics and Diseases of Children
NORMAN BRIDGE, A.M., M.D., Emeritus Professor of Medicine

HENRY MUNSON LYMAN, A.M., M.D., Vice President of the Faculty, Professor of Medicine, 100 State st
WALTER STANLEY HAINES, A.M., M.D., Professor of Chemistry, Pharmacy, and Toxicology, Rush Medical College
JAMES NEVINS HYDE, A.M., M.D., Secretary of the Council of Administration and of the Faculty, Professor of Skin, Genito-Urinary, and Venereal Diseases, 100 State st.
ARTHUR DEAN BEVAN, M.D., Professor of Surgical Anatomy and Associate Professor of Surgery, 100 State st.
NICHOLAS SENN, M.D., Ph.D., LL.D., C.M., Nicholas Senn Professor of Surgery, 100 State st.
EPHRAIM FLETCHER INGALS, A.M., M.D., Comptroller, Professor of Diseases of the Chest, Throat, and Nose, 34 Washington st.
DANIEL ROBERTS BROWER, A.M., M.D., LL.D., Professor of Nervous and Mental Diseases, 34 Washington st.
JOHN MILTON DODSON, A.M., M.D., Dean of the Students, Professor of Medicine, 34 Washington st.
LUDVIG HEKTOEN, M.D., Professor of Pathology, Rush Medical College
FERDINAND CARL HOTZ, M.D., Professor of Ophthalmology and Otology, 34 Washington st.
HENRY BAIRD FAVILL, A.B., M.D., Ingals Professor of Therapeutics and Preventive Medicine, 100 State st.
FRANK BILLINGS, M.S., M.D., Dean of the Faculty, Professor of Medicine, 100 State st.
JOHN CLARENCE WEBSTER, M.D., F.R.C.P. (Edin.), Professor of Obstetrics and Gynecology, 100 State st.
CHRISTIAN FENGER, M.D., Professor of Clinical Surgery, 269 LaSalle ave.
LEWELLYS FRANKLIN BARKER, M.B., Professor of Anatomy, the University of Chicago
JACQUES LOEB, M.D., Professor of Physiology, the University of Chicago
CHARLES OTIS WHITMAN, Ph.D., LL.D., Professor of Zoölogy, 223 E. 54th st.
ALBERT ABRAHAM MICHELSON, Ph.D., Professor of Physics, 220 E. 60th st.

HENRY HERBERT DONALDSON, PH.D., Professor of Neurology, 5740 Woodlawn ave.

JOHN ULRIC NEF, PH.D., Professor of Chemistry, 6018 Stony Island ave.

JAMES BRYAN HERRICK, A.B., M.D., Professor of Medicine, 103 State st.

HON. HENRY VARNUM FREEMAN, LL.D., Professorial Lecturer on Medical Jurisprudence, 5760 Woodlawn ave.

WILLIAM THOMAS BELFIELD, M.D., Associate Professor of Surgery, 112 Clark st.

TRUMAN WILLIAM BROPHY, M.D., M.D.S., LL.D., Associate Professor of Dental Surgery and Pathology, 126 State st.

ALFRED CLEVELAND COTTON, A.M., M.D., Associate Professor of the Diseases of Children, 1485 Jackson boul.

FRANK HUGH MONTGOMERY, M.D., Associate Professor of Skin, Genito-Urinary, and Venereal Diseases, 100 State st.

JOHN EDWIN RHODES, A.M., M.D., COLLEGE HISTORIAN, Associate Professor of Diseases of the Chest, Throat, and Nose, 34 Washington st.

DAVID WILSON GRAHAM, M.D., Associate Clinical Professor of Surgery, 34 Washington st.

MARION TALBOT, A.M., Associate Professor of Sanitary Science; Dean of Women, Green Hall.

ALEXANDER SMITH, PH.D., Associate Professor of General Chemistry, The Quadrangle Club

CHARLES BENEDICT DAVENPORT, PH.D., Associate Professor of Zoölogy and Embryology, 5725 Monroe ave.

EDWIN OAKES JORDAN, PH.D., Associate Professor of Bacteriology, 5720 Woodlawn ave.

HENRY BACHMANN STEHMAN, A.M., M.D., Assistant Professor of Gynecology

JEROME HENRY SALISBURY, A.M., M.D., Assistant Professor of Chemistry, 982 W. Adams st.

HAROLD NICHOLAS MOYER, M.D., Assistant Professor of Medicine, 103 State st.

ALBERT IRVING BOUFFLEUR, B.S., M.D., Assistant Professor of Emergency Operations, 34 Washington st.

FREDERIC SHURTLEFF COOLIDGE, A.B., M.D., DEAN OF THE STUDENTS, Assistant Professor of Orthopædic Surgery, 103 State st.

GEORGE HOWITT WEAVER, M.D., Assistant Professor of Pathology and of Medicine, 535 Washington boul.

EDWIN RAYMOND LECOUNT, M.D., Assistant Professor of Pathology, Rush Medical College

BIRD McPHERSON LINNELL, A.B., M.D., Assistant Professor of Physiology, Rush Medical College, 100 State st.

JACOB ALLEN PATTON, B.S., M.D., Assistant Professor of Materia Medica and of Chemistry, 100 State st.

CASSIUS DOUGLAS WESCOTT, M.D., Assistant Professor of Ophthalmology, 31 Washington st.

WILLIAM HAMLIN WILDER, M.D., Assistant Professor of Ophthalmology, 103 State st.

BERTRAM WELTON SIPPY, M.D., Assistant Professor of Medicine, 103 State st.

ELIAS POTTER LYON, PH.D., Assistant Professor of Physiology, the University of Chicago

FELIX LENGFELD, PH.D., Assistant Professor of Inorganic Chemistry, 5763 Madison ave.

JULIUS STIEGLITZ, PH.D., Assistant Professor of Chemistry, 245 E. 61st st.

FRANK RATTRAY LILLIE, PH.D., Assistant Professor of Zoölogy and Embryology, the University of Chicago

ALBERT PRESCOTT MATHEWS, PH.D., Assistant Professor of Physiological Chemistry, the University of Chicago

CHARLES JOSEPH WHALEN, M.D., LL.B., Assistant Professor in Diseases of the Chest, Throat, and Nose, 34 Washington st.

EMANUEL JOHN SENN, M.D., Assistant Professor of Surgery, 100 State st.

EFFA VETINA DAVIS, M.D., Assistant Clinical Professor of Obstetrics, 516 W. Adams st.

CHARLES EVART PADDOCK, M.D., Assistant Clinical Professor of Obstetrics, 515 W. Adams st.

CHARLES AUBREY PARKER, M.D., Instructor in Anatomy and in Surgery, 16 S. Homan av.

JAMES CORNELIUS GILL, M.D., Instructor in Therapeutics, 34 Washington st.

GEORGE WASHINGTON HALL, A.M., M.D., Instructor in Diseases of the Chest, Throat, and Nose; and in Therapeutics, 34 Washington st.

WILLIAM JOSEPH BUTLER, M.D., Instructor in Medicine, 1485 Jackson boul.

SAMUEL ROBERT SLAYMAKER, A.B., M.D, Instructor in Medicine, 100 State st.
THOMAS ALBERT OLNEY, M.D., Instructor in Anatomy, 1521 Jackson boul.
GEORGE FREDERICK ZAUN, M.D., Instructor in Therapeutics, 346 North ave.
EDWARD THAYER DICKERMAN, M.D., Instructor in Otology, 103 State st.
JOSEPH ALMARIN CAPPS, A.M., M.D., Instructor in Medicine, 100 State st.
FRANK SPOONER CHURCHILL, A.B., M.D., Instructor in the Diseases of Children, 460 Dearborn ave.
OTTO TIGER FREER, M.D., Instructor in Diseases of the Chest, Throat, and Nose, 288 E. Huron st.
ERNEST JOHNSON MELLISH, M.D., Instructor in Surgery, 103 State st.
RUDOLPH WEISER HOLMES, M.D., Instructor in Obstetrics and Gynecology, 387 N. State st.
THOMAS REID CROWDER, Ph.B., M.D., Instructor in Medicine, 100 State st.
HENRY FRANCIS LEWIS, M.D., Instructor in Obstetrics and Gynecology, 4426 Lake ave.
ALFRED SCHALEK, M.D., Instructor in Skin, Genito-Urinary, and Venereal Diseases, 34 Washington st.
ELMER ARTHUR LAWBAUGH, M.D., Instructor in Ophthalmology, 31 Washington st.
FRANK WEBSTER JAY, M.D., Instructor in Surgery, 103 State st.
DAVID JUDSON LINGLE, Ph.D., Instructor in Physiology, 360 E. 51st st.
ALBERT CHAUNCEY EYCLESHYMER, Ph.D., Instructor in Anatomy, 7120 Rhodes ave.
DONALD JOHN ARMOUR, A.B., M.B., Instructor in Anatomy, The Quadrangle Club
CHARLES MANNING CHILD, Ph.D., Instructor in Zoölogy, 6024 Ellis ave.
JOHN CHARLES HESSLER, Ph.D., Instructor in Chemistry, 5756 Madison ave.
EDWARD BUEL HUTCHINSON, B.S., M.D, Associate in Obstetrics and Gynecology, 5708 Monroe ave.
FREDERICK ARTHUR JEFFERSON, B.L., M.D., Associate in Obstetrics and Gynecology, 1441 Aldine ave.
CHARLES ALBERT WADE, M.D., Associate in Medicine, 709 Jackson boul.
JAMES WARREN VANDERSLICE, M.D., Associate in Medicine, 34 Washington st.
FREDERICK DRURY HOLLENBECK, M.D., Associate in Therapeutics, 205 N. State st.
JAMES ALEXANDER HARVEY, M.D., Associate in Medicine, 100 State st.
ALBERT BELCHAM KEYES, M.D., Associate in Surgery, 299 N. State st.
JOSEPH FRANCIS DOLAMORE, M.D., Associate in Diseases of the Chest, Throat, and Nose, 5 Blue Island ave.
GEORGE ABRAHAM TORRISON, M.D., Associate in Diseases of the Chest, Throat, and Nose, 34 Washington st.
HOWARD TAYLOR RICKETTS, A.B., M.D., Associate in Dermatology, Rush Medical College
PRESTON KYES, A.M., M.D., Associate in Anatomy, The Quadrangle Club
HARRY GIDEON WELLS, A.M., M.D., Associate in Pathology, the University of Chicago
LAUDER WILLIAM JONES, Ph.D., Associate in Chemistry, 573 E. 62d st.
MARTIN HENRY FISCHER, M.D., Associate in Physiology, the University of Chicago
RALPH WALDO WEBSTER, Ph.D., M.D., Associate in Chemistry, The Quadrangle Club
GLENN MILTON HAMMON, M.D., Associate in Diseases of the Chest, Throat, and Nose, 683 W. Adams st.
MORLEY DaCOSTA BATES, Associate in Diseases of the Chest, Throat, and Nose, 34 Washington st.
LAWRENCE RYAN, M.D., Associate in Therapeutics, 1271 W. Van Buren st.
EMANUEL FRIEND, M.D., Associate in Surgery, 3670 Indiana ave.
KARL DOEPFNER, M.D., Associate in Surgery, 581 Orchard st.
PALMER FINDLEY, M.D., Associate in Obstetrics and Gynecology, 100 State st.
ROBERT ARCHIBALD MacARTHUR, M.D., Clinical Associate in Ophthalmology, 100 State st.
JOSEPH EDWARD RAYCROFT, A.B., M.D., Assistant in Diseases of the Chest, Throat, and Nose, the University of Chicago
DEAN DeWITT LEWIS, A.B., M.D., Assistant in Anatomy, the University of Chicago
STEPHEN EDWARD DONLON, M.D., Assistant in Surgery, 1549 W. Twelfth st.
PHILIP PETERSON SCHUYLER DOANE, M.D., Assistant in Surgery, 583 E. Division st.
LEIGH EWING SCHWARZ, M.D., Assistant in Ophthalmology and Otology, 103 State st.
CASSIUS CLAY ROGERS, B.S., M.D., Assistant in Ophthalmology and Otology, 70 State st.
GEORGE ELMER SHAMBAUGH, M.D., Assistant in Ophthalmology and Otology, 100 State st.
WILLIAM BREAR SPRAGUE, M.D., Assistant in Therapeutics, Rush Medical College

EDWARD VAIL LAPHAM BROWN, M.D., Assistant in Ophthalmology and Otology, 5722 Kimbark ave.
E. W. RYERSON, A.B., MD., Assistant in Surgery, 103 Lincoln Park blvd.
THEODORE WILD, JR., M.D., Assistant in Medicine, 697 N. Robey st.
FRANK D. PIERCE, A.B., M.D., Assistant in Obstetrics and Gynecology, Rush Medical College
IRVING HARDESTY, Ph.D., Assistant in Neurology, the University of Chicago
HENRY CHALMERS BIDDLE, Ph.D., Assistant in General Chemistry, 5811 Jackson ave.
WILLIAM BUCHANAN WHERRY, A.B., M.D., Assistant in Bacteriology, the University of Chicago
NATHAN PORTER COLWELL, M.D., Assistant to the Deans, Assistant in Diseases of the Chest, Throat, and Nose, 100 State st.
JULIA DYER MERRILL, M.D., Clinical Assistant in Diseases of Children and in Obstetrics, 520 W. Chicago ave.
ELIZABETH HAY, M.D., Clinical Assistant in Obstetrics, 520 W. Chicago ave.
JOHN LAURENCE JAQUE, M.D., Clinical Assistant in Diseases of the Chest, Throat, and Nose, 732 N. Leavitt st.
CHARLES SHERMAN BRANNAN, A.B., M.D., Clinical Assistant in Diseases of the Chest, Throat, and Nose, 70 State st.
ALEXANDER FRANCIS STEVENSON, M.D., Fellow in Medicine, Presbyterian Hospital
HARRY WENDELL HORN, M.D., Fellow in Surgery, Presbyterian Hospital
LUDWIG M. LOEB, M.D., Fellow in Pathology, Rush Medical College
HERBERT GAMES VAUGHAN, M.D., Fellow in Chemistry, Rush Medical College

## INSTRUCTORS APPOINTED FOR THE SUMMER QUARTER, 1901

HERBERT NEWBY McCOY, Ph.D., Associate Professor of Chemistry, University of Utah, Salt Lake City, Utah
DANIEL GRAISBERRY REVELL, M.B., Assistant in Anatomy
ELLIOTT ROWLAND DOWNING, S.M., Assistant in Zoölogy
SHINKISHI HATAI, Assistant in Neurology

## FELLOWS APPOINTED FOR 1901–1902

(IN THE MEDICAL DEPARTMENTS AT THE UNIVERSITY OF CHICAGO)

Charles Christopher Adams, S.M., Zoölogy
Wallace Appleton Beatty, S.M., Chemistry
William McAfee Bruce, A.M., Chemistry
Francis William Bushong, A.M., Chemistry
Arthur White Greeley, A.M., Physiology
Eugene Howard Harper, A.M., Zoölogy
Shinkishi Hatai, Neurology
Mary Hefferan, A.M., Bacteriology
Charles Ingbert, A.B., Neurology
Charles Hugh Neilson, A.M., Physiology
Daniel Graisberry Revell, M.B., Anatomy
John Wilkes Shepherd, A.M., Chemistry
Louis Neill Tate, S.B., Anatomy

JAMES H. HARPER, *Registrar*

## *ATTENDING PHYSICIANS, CENTRAL FREE DISPENSARY*

### GYNECOLOGY

Thomas Warloe
Palmer Findlay

### SKIN AND VENEREAL DISEASES

Alfred Schalek
Howard T. Ricketts
William A. Quinn

### DISEASES OF CHILDREN

J. W. Vanderslice
C. A. Wade
F. S. Churchill

### GENERAL DISEASES

J. A. Harvey
J. H. Salisbury
Charles W. Evans

### NERVOUS DISEASES

James J. McCurdy
Harold N. Moyer

### THROAT AND CHEST DISEASES

O. T. Freer
Joseph F. Dolamore

### SURGERY

F. W. Jay
P. P. S. Doane
F. S. Coolidge

### EYE AND EAR DISEASES

E. A. Lawbaugh
Robert Archibald MacArthur
Edward T. Dickerman

### OBSTETRICS

Effa V. Davis
Elizabeth Hay
Julia D. Merrill

### EXTRA-MURAL INSTRUCTORS

#### At the Cook County Hospital

Edwin L. Moorhead, M.D., Assistant Clinical Professor (*extra-mural*) of Gynecology
A. E. Halsted, M.D., Assistant Clinical Professor (*extra-mural*) of Surgery

#### At the West Side Hebrew Dispensary

Isaac A. Abt, M.D., Assistant Clinical Professor (*extra-mural*) of Paediatrics
Rosa Engelman, M.D., Assistant Clinical Professor (*extra-mural*) of Paediatrics
Albert B. Hale, M.D., Assistant Clinical Professor (*extra-mural*) of Ophthalmology
Sydney Kuh, M.D., Assistant Clinical Professor (*extra-mural*) of Neurology
George Morgenthau, M.D., Assistant Clinical Professor (*extra-mural*) of Diseases of the Throat, Nose, and Ear
Emanuel Friend, M.D., Assistant Clinical Professor (*extra-mural*) of Surgery
May Michael, M.D., Clinical Assistant (*extra-mural*) in Diseases of Children
B. Irving Strauss, M.D., Clinical Assistant (*extra-mural*), Diseases of the Eye
L. E. Gordon, M.D., Clinical Assistant (*extra-mural*) in Diseases of the Throat, Nose, and Ear
A. W. Schram, M.D., Clinical Assistant (*extra-mural*) in Medicine

#### At the Chicago Isolation Hospital

Heman Spalding, M.D., Assistant Clinical Professor (*extra-mural*) of Medicine

#### At the St. Luke's Hospital

Lewis L. MacArthur, M.D., Assistant Clinical Professor (*extra-mural*) of Surgery

## THE TRANSFER OF THE COURSES OF THE FRESHMAN AND SOPHOMORE YEARS TO THE UNIVERSITY OF CHICAGO

For several years the University of Chicago has offered courses suitable for students who were preparing to undertake medical work, and also in several of the subjects usually included in the first two years of a medical college curriculum. In 1899 provision was made for courses in Practical Anatomy, and under the arrangement of affiliation with Rush Medical College, the University has offered, during the current session, courses corresponding to all of the work of the Freshman year of that institution. Medical students have been permitted to take their Freshman work at the University or at the College at their option. Beginning June 19, 1901, the University offers instruction in all of the subjects of the first two years of the medical curriculum; namely, in Anatomy, both gross and microscopic, Neurology, Embryology, Physiology, Physiological Chemistry, Inorganic, Organic, and Analytical Chemistry, Toxicology, Pathology, Bacteriology, and Pharmacology. The student who has completed this work will be prepared to enter directly upon the clinical work, that is to say, the work of the third and fourth years of the medical school. All of the work of the first two years of Rush Medical College will hereafter be offered at the University only. Students taking this work at the University will matriculate and register as students of Rush Medical College and likewise as students of the University. There will be no extra fee for such registration at the College.

For the session beginning June 19, 1901,* students will be admitted to the medical course who can comply with the requirements for admission to the Junior Colleges of the University of Chicago, corresponding to the requirements for admission to the Freshman year of an institution of equal rank. The necessity, however, for a broader and more thorough preparation for the study of medicine is strongly emphasized, and every student is advised to procure a liberal education, such as can be obtained only in a well equipped college or university, before taking up the study of medicine. This preparation, which should extend over at least two years of college work, should include a thorough course in Mathematics, in German and French, and in the sciences of Physics, Chemistry, and Biology. The requirements for admission to the medical course will be increased after the ensuing year, and ultimately the Junior College certificate of the University, corresponding to the completion of the Sophomore year of a high grade college or university, will be demanded. (See p. 17.)

Attention is called to the fact that courses are offered in the departments of Arts, Literature, and Science of the University, in all the branches of a liberal education, and a medical student may take work in these branches by attendance upon additional quarters, or to a limited extent by extra work during his attendance upon the medical course. Students desiring to take work of this character should consult with the Dean of the Medical Course. Students who have completed not less than eighteen majors of University work, corresponding to the Freshman and Sophomore years of a high grade university or college, and who have acquired a good knowledge of Physics, Chemistry, and Biology, and a reading knowledge of French and German, will be allowed to elect their work in the medical branches, subject to the restrictions imposed and to the approval of the Dean. (See p. 26, 2.) Students of this class who have not completed the work for the Bachelor's degree may apply their credits in medical courses as Senior College electives for a Bachelor's degree. (See pp. 24, 25.) Not only is the medical work elective for students who are thus prepared, but the courses are so arranged that the attention of the worker may be concentrated upon single or allied subjects. For example, anticipation of the chemistry of the medical course will permit a student to devote more time to any of the more strictly medical sciences. Students of this class who have received a college degree (A.B., Ph.B., or S.B.) are permitted to exceed the usual registration of three majors of work per quarter without the payment of extra tuition fee, and it is hoped that this will encourage such students to avail themselves of the opportunities offered for advanced work and original research.

---

* See p. 26, § 3, in regard to the best time for entering on the medical course.

The teaching of the fundamental medical branches in an institution of general learning is believed to constitute a distinct step in advance in medical education. The student pursuing these branches in the atmosphere of an institution devoted to purely scientific work under the instruction of men whose time is wholly devoted to teaching and investigation along their respective lines, cannot but arrive at a broader and more thorough conception of these sciences. Such a training will not only afford a better preparation for the clinical courses of the medical college and for the practice of medicine and surgery, but will enable its possessor to follow easily in paths along which medical advances promise to be made, and to apply these new discoveries in his daily work.

---

## LABORATORIES, EQUIPMENT, AND LIBRARIES

The University affords for the work of the Medical Course the following buildings:

### THE HULL BIOLOGICAL LABORATORIES

On December 14, 1895, Miss Helen Culver, of the city of Chicago, presented the University of Chicago with property valued at $1,000,000 — the whole gift, according to the terms of the letter of endowment, to be devoted to the increase and spread of knowledge within the field of the biological sciences. From this fund there have been erected, at the north end of the University grounds, four buildings to serve as laboratories for the Anatomical, Botanical, Physiological, and Zoölogical Sciences. Medical instruction is given in the Anatomical, Physiological, and Zoölogical Laboratories.

### THE ANATOMICAL LABORATORY

The Anatomical Laboratory is 120×50 feet, and four stories high, exclusive of the basement and attic, and was constructed to provide for Anatomy, both gross and microscopic, including Neurology.

In the basement are special rooms for keeping frogs and similar animals at low temperatures; a bone room, a cold storage room for anatomical material, and a crematory.

The first floor is occupied by three large laboratories for microscopic work (Histology, Microscopic Anatomy, Neurology, and Pathology), and a large photographic room containing a stone pier and connected with a dark room. On the second floor there is an additional room for general class work in microscopic branches, a lecture room and an Osteological Laboratory. Here, too, are located the laboratories of the staff in Neurology and a laboratory for advanced work and original research in Neurology. On the third and fourth floors are situated the dissecting rooms for Human Anatomy, the private laboratories for instructors and research workers, and two laboratories for the making of special preparations. In the attic there is a well-lighted operating room adjoining a large animal room; in addition several storerooms are situated here. The laboratories are well equipped for work in gross and microscopic Anatomy and in Pathology, and especial facilities are afforded for advanced work and original research.

### THE PHYSIOLOGICAL LABORATORY

The Physiological Laboratory is 102 by 52 feet and four stories high, exclusive of the basement and attic. The basement contains a cold-storage room, aquarium room, an animal room, workshop, and storeroom. It is connected with the greenhouse of the laboratory. The first floor contains a general laboratory for beginners, a galvanometer room, a lecture room, and photographic room. The second floor contains a large lecture room with preparation room and storeroom, the departmental library, an optical room, two dark rooms, and a private laboratory. The third floor contains two laboratories for advanced workers in Physiology, a laboratory for beginners in Physiological Chemistry and Pharmacology, a balance room, and several smaller rooms for work in Physiological Chemistry, and Pharmacology. The fourth floor contains two rooms with cages for animals and an operating room. In addition, two laboratories for work in Physiological Chemistry and Pharmacology, a combustion room, and a room for work in gas analysis. The laboratories are well equipped both for general instruction in Physiology, Physiological Chemistry, and Pharmacology and for advanced and research work in these sciences.

### THE ZOÖLOGICAL LABORATORY

The Zoölogical Laboratory is 120 by 50 feet, and four stories high, exclusive of the basement.

On the first floor are located the library of the biological departments, rooms for a synoptical museum, a large laboratory for elementary Zoölogy and a laboratory for research work in Pathology. The second floor contains one large laboratory for beginners in research, and a number of smaller laboratories for more advanced work. The third floor contains two large laboratories, one for comparative anatomy and embryology, the other for cellular biology, and a number of rooms for research. The fourth floor is devoted to the laboratories for Bacteriology, which are supplied with sterilizers, incubators, special microscopes, and other bacteriological apparatus, and are furnished with tables for microscopical work and for the usual laboratory manipulations. The basement contains one large room with glass-covered extension on the south side, designed for an aquarium, two rooms for use as aviaries, vivaria, etc., one room for palæontological material, and one for taxidermy and museum purposes.

The best optical and other apparatus demanded by zoölogical work are provided. There are series of models and charts illustrating embryological and morphological subjects, and ample facilities for keeping land and aquatic animals under favorable conditions for study.

## THE KENT CHEMICAL LABORATORY

The Chemical Laboratory provided by the generosity of Mr. Sidney A. Kent is 176 by 64 feet and three stories high exclusive of the basement. An amphitheater seating 750 people forms an annex to the building. Lectures are given in rooms on the first floor. The laboratory instruction in General Inorganic and Elementary Organic Chemistry is given on the third floor in three large laboratories accommodating 300 students. Each student is given a separate desk supplied with gas and water and is furnished with all necessary chemicals and apparatus. The laboratories for analytical chemistry are on the second and third floors. The advanced work in chemistry is done in general and private laboratories on the first and second floors. There are a number of small rooms used as balance, combustion, gas-analysis, photographic rooms, etc. The Chemical Library contains full sets of the most important journals, books of reference, and other works relating to Chemistry.

## THE LIBRARIES

The General Library is located on the northeast corner of the University quadrangles. The building now occupied is temporary and is to be used until such time as a permanent library building may be erected.

The General Library is for the use of students in all departments of the University. Students who have matriculated may take at one time three volumes from the General Library. These may be kept two weeks, and at the end of that time, if desired, may be renewed for two weeks.

Former students may continue the use of the library by the payment of the library fee of $2.50 per quarter.

The total number of books at present in the library is approximately 230,000.

Number of volumes in departmental libraries of departments concerned in medical instruction, January 1, 1900: Biology, including Anatomy, Neurology, Physiology, Bacteriology, Pathology, Zoölogy, Physiological Chemistry, and Pharmacology, 8353; Chemistry 1813, Physics 1375.

All the branch and departmental libraries are catalogued and classified. Most of the collections in the General Library are now permanently arranged.

Liberal appropriations have been made this year to each of the departments giving courses in medicine for the purchase of additions to the libraries dealing especially with the subjects concerned. A further annual appropriation has been granted to each department which will permit of the supply of all the important current scientific medical journals and reviews and the purchase of monographs as they appear from month to month.

The students of the University are permitted to use the books and periodicals in the Newberry Library and in the Crerar Library, both of which contain a large number of medical and general scientific works.

The Public Library of Chicago is also available to medical students for general reading.

---

## BUILDINGS, EQUIPMENT, AND HOSPITAL FACILITIES AT RUSH MEDICAL COLLEGE

*The Clinical Building*, situated upon the corner of West Harrison and Wood streets, is 60 × 80 feet, and four stories in height. The first floor is occupied by the college library and reading-room. On the second floor are situated the offices of the college, the lower amphitheater, seating 400, and clinical waiting rooms. The third floor contains the upper amphitheater, seating 530 persons, a large surgical examining and dressing room, five clinical examining rooms, and a waiting-room for patients. The fourth floor is occupied in part by the upper amphitheater, and in part by the laboratory for surgical and orthopedic appliances and bandaging.

*Senn Hall*, now in process of erection, through the munificence of Professor Senn and other members of the Faculty, adjoins the Clinical Building on the east and will be completed in November. It covers a ground space of 40 × 90 feet, is seven stories in height (including the basement), and of absolutely fire-proof construction. The basement and first three floors, affording over 10,000 square feet of floor space, will be devoted to the dispensary and the clinical teaching connected therewith. The fourth and fifth floors will be occupied by clinical laboratories and recitation rooms. The remaining two stories will contain two surgical and medical amphitheaters, seating about 150 each, with necessary waiting and preparation rooms.

*The Laboratory Building*, on the south side of Harrison street, is 100 × 45 feet in area, and six stories in height (including the basement.) The basement is occupied by storage rooms for apparatus, an animal room for the laboratory of Pathology and Bacteriology, and a cloak-room for students. Adjoining the basement is a separate building for the preparation and storage of cadavers, by the cold-storage process, with a capacity for about 200 bodies. The first and second stories are devoted to the Department of Pathology and Bacteriology, which is fully equipped with the necessary microscopes and other apparatus for advanced work in these branches. The third floor is occupied by the Department of Chemistry and Toxicology, and is supplied with all of the necessary apparatus and materials for advanced work in these branches in their relation to practical medicine. The fourth floor contains four recitation rooms and a laboratory for Pharmacy and Therapeutics. The fifth floor is devoted to advanced work in practical gross Anatomy, and to Operative Surgery.

*The Presbyterian Hospital*, with accommodations for 250 patients, adjoins the college and is connected with it so that patients can be transferred directly from the wards to the clinical amphitheaters. In this hospital over 2000 patients are treated annually, and it thus affords a large amount of valuable material for the clinics.

*In the Cook County Hospital*, which is situated opposite the college, are treated about 20,000 patients annually. In this institution are given about forty clinics a week, including all varieties of medical and surgical cases. As the result of the enlightened policy of the Warden and Board of County Commissioners, the wards have been thrown open for bedside instruction to medical students. The students of the Junior and Senior classes are taken directly into the wards by an attending physician and afforded an opportunity for the individual examination and study of patients under his careful supervision. The facilities for the study of pathology which are afforded at the Cook County Hospital are unexcelled in this country. Between 300 and 400 post-mortems are made annually in the necropsy theater by Professor Hektoen and the Associate Pathologist of the Hospital.

*The Library and Reading Room*, which has heretofore occupied the fourth floor in the Chicago College of Dental Surgery, will be transferred to the first floor of the clinical building, which will add to the convenience of our students. The library contains about 10,000 volumes and files of all the leading medical journals in English, German, and French.

Through the courtesy of the medical attendants and managing officers of several hospitals and dispensaries within convenient distance of the College, *extra-mural* clinical courses are offered to the students of Rush, in small groups, and the clinical material available for teaching has thus been greatly augmented. Such courses are offered at the West Side Hebrew Dispensary, treating about 30,000 cases annually; at the St. Luke's Hospital, with about 2000 cases annually; at the Illinois Charitable Eye and Ear Infirmary, treating about 1000 cases, and at the Chicago Isolation Hospital, where about 250 cases of smallpox were received during the past year.

## REQUIREMENTS FOR ADMISSION

### GENERAL REGULATIONS

Students are admitted to the Medical Course either as 1) *Medical Students*, or 2) as *Undergraduate Students* (candidates for a bachelor's degree, S.B., A.B., or Ph.B.).

*Graduates* of the University of Chicago or of other universities or colleges in good standing are admitted to the Medical Course as Medical Students; they are allowed all the privileges of the members of the Graduate Schools of the University.

In addition to students in regular standing, provision is made for the admission to the University of undergraduate students not seeking degrees. Such students are known as *Unclassified Students*.

1. *Admission as a Medical Student.*
   - *a*) Each student must present to the faculty certificates of good moral character, signed by at least two physicians of good standing in the state in which the applicant last resided.
   - *b*) He must be able to comply with the requirements for admission to the Junior Colleges of the University of Chicago. These requirements are stated below on p. 16. They correspond to the requirements for admission to the Freshman class of the better universities or colleges.
   - *c*) He must matriculate and register as a student of Rush Medical College as well as of the University at the beginning of his course. Such matriculation and registration is accomplished at the University.
2. *Admission as an Undergraduate Student* (as a candidate for a bachelor's degree).
   - *a*) The first two years' work in Medicine may be taken as the third and fourth years of the bachelor of science course upon fulfillment of certain requirements for the degree (see p. 25 of this *Announcement*).

     A very considerable part of the first two years' work in Medicine may also be taken during the third and fourth years of the bachelor of arts or the bachelor of philosophy courses (see p. 25 of this *Announcement*).

     Students who wish to enter college and prepare to take the Medical work as part of their baccalaureate course may enter at the beginning of the Junior College Course (first college year) or at any farther stage of advancement.

     Students who wish to take the Medical course as part of their baccalaureate course and desire to be admitted at once to the Medical course must secure admission to the Senior Colleges (third and fourth academic years) of the University* (see p. 26).
   - *b*) Each student must present to the faculty certificates of good moral character signed by at least two physicians of good standing in the state in which the applicant last resided.
   - *c*) In order to comply with the rules of the Medical Examining Boards of several states a student will matriculate and register with the Dean of Rush Medical College (at the University) at the beginning of the first or second year's work in Medicine. He will continue to

---

*A student desiring to enter the course as a candidate for the S.B., A.B., or Ph.B. degrees is requested to consult pp. 25, 26 of this *Circular* and write for the *Circular of Information* of the Colleges, in which a complete statement is given of the requirements for the college degrees and of the conditions for admission to advanced standing in the colleges. He is also invited to enter into correspondence upon the subject with The Dean in the Colleges.

register, at the same time, with the Dean of the Senior Colleges until he receives a bachelor's degree.

3. *Admission as a Graduate Student.*
   *a*) Admission to the Graduate Schools of the University is granted (1) to those who have been graduated from the colleges of the University of Chicago with the degree A.B., Ph.B., or S.B.; (2) to those holding baccalaureate degrees from other institutions of good standing.
   *b*) Applications for admission in the case of students not graduates of the University should be accompanied by testimonials as to character and scholarship. Such testimonials should take the form of diplomas, written or printed theses, or furnish satisfactory evidence in some other form of the student's fitness for admission.
   *c*) A Graduate Student taking the Medical Course will register as a Medical Student with the Dean of Medical Students and must fulfill the conditions prescribed above in 1. *a*) and *c*).
   *d*) For the conditions governing advanced standing in the Medical Course, see p. 18.

4. *Unclassified Students.*
   *a*) Candidates for admission to the University as *Unclassified Students* (1) must be at least 21 years of age; (2) must show good reason for not entering upon a regular course; (3) *must take the entrance examinations of the departments in which they wish to work;* (4) must satisfy the Dean and the particular instructors under whom they desire to study that they are prepared to carry the courses elected.

   Unclassified students conform to all regulations of the University, and, having been admitted, their continuance depends on the maintenance of a satisfactory standing.

**Note.— Students entering the University for the first time should make it a point to complete all arrangements for entrance, either by correspondence or in person,** ***at least two days before the opening of the quarter.***

## REQUIREMENTS FOR ADMISSION TO THE MEDICAL COLLEGE

### I. In General

Preparation for admission to the Medical College is expected to cover a period of four years in a secondary school (high school or academy) of high grade. The University does not, however, accept a high school or academy diploma as satisfying these requirements, but exacts specific credits for each subject. Such admission credits are reckoned in units.

A *unit* corresponds to a course of study comprising not less than 150 hours of prepared work. Two hours of laboratory work are regarded as the equivalent of one hour of prepared work. Fifteen units are required for admission to the Junior College. Some of them are definitely prescribed, viz.: **History** 1 unit, **Latin** 2 units, **Mathematics** 2½ units, **Physics** 1 unit, **Chemistry*** 1 unit, and **English** 2 units. The others are elective.

*When a student presents credit for these units from an affiliated, or coöperating school* (*see list on p. 17*), *such credit is allowed without further examination. If a credit be presented for work done at a school other than an affiliated or coöperating school, he is required to pass an examination conducted by the University except for work done in accredited schools of certain State Universities* (see p. 17).

*Times and Places of Examinations.* Examinations for admission are held four times a year at the University. (For dates see calendar, p. 2 and 3.) They are also given at the request of students or teachers at any of the regular dates, in cities outside of Chicago in which satisfactory arrangements can be made. Applications for such examinations should be made to the Dean of Affiliations at least 30 days in advance. Examinations for admission at other than the regular dates may be given only at the University and that by special permission of the Dean, and upon the payment of a fee of not less than $10.00 nor more than $15.00 (the amount being dependent on the number of examinations taken).

Candidates for admission are not required to take all the examinations at one time.

Full information in reference to the requirements for admission, with explicit description of the courses advised, the grouping recommended, with instruction as to the manner of preparing and presenting credits, is contained in the Circular of Information in reference to requirements for admission. Students desiring to apply for admission should write for this circular and for the blank, "Recommendation for Admission.' Credits are accepted, without examination, from the affiliated and coöperating schools named in the following list:

---

*Students may enter the Medical Course without entrance Chemistry, one unit, but such students will be conditioned and required to take two courses in Chemistry in addition to the prescribed work of the Medical Course. The two courses may be taken in the Summer Quarter previous to the beginning of the Medical Course, or as extra work during the Medical Course, or in the Summer Quarter between the first and second years of Medicine.

1. *Students from Morgan Park Academy and the Affiliated and Coöperating Schools.* Students from these schools are admitted to the University upon presentation of a *subject certificate* covering each of the subjects stated above as required for admission. The affiliated and coöperating schools are named below:

2. *Affiliated Schools.* The following is the list of affiliated schools doing preparatory work: Bradley Polytechnic Institute, Peoria, Ill.; Culver Military Academy, Culver, Ind.; Frances Shimer Academy, Mt. Carroll, Ill.; South Side Academy, Harvard School, Kenwood Institute, Chicago Manual Training School, Princeton-Yale School, Dearborn Seminary, the University School for Girls, all of Chicago; Rugby School, Kenilworth, Ill.; Wayland Academy, Beaver Dam, Wis.; Elgin Academy, Elgin, Ill.; Burlington Institute, Burlington, Iowa.

3. *Coöperating Schools.* The following is the list of Coöperating secondary schools:

   The High Schools of Chicago, viz.: Austin, Calumet, Englewood, English High and Manual Training, Hyde Park, Jefferson, John Marshall, Joseph Medill, Lake, Lake View, North Division, Northwest Division, South Chicago, South Division, West Division.

   Other High Schools in Illinois: Aurora (East Side), Aurora (West Side), Bloomington, Blue Island, Clyde, Elgin, Evanston Township, Freeport, Harvey, Hinsdale, Joliet, La Salle, Lyons Township, Moline, Oak Park, Ottawa Township, Peoria, Princeton, Quincy, Riverside, Rockford, Rock Island, Springfield, and Waukegan.

   In California: San Francisco Girls' and Lowell High Schools.

   In Colorado: Colorado Springs, Denver, West Denver and Pueblo (Central and Centennial) High Schools.

   In Indiana: Fort Wayne High School, Indianapolis High School, Indianapolis Industrial Training School, Classical School for Girls (Indianapolis), La Porte, Terre Haute, and Richmond High Schools.

   In Iowa: Davenport, Des Moines (West Side), Dubuque, Keokuk, Sioux City, Clinton, Cedar Rapids, Ottumwa, and Council Bluffs High Schools.

   In Kansas: Leavenworth, Fort Scott, and Topeka High Schools.

   In Kentucky: Boys' High School and Girls High School, Louisville.

   In Michigan: Michigan Military Academy (Orchard Lake), Battle Creek, Grand Rapids (Central), St. Joseph, and Benton Harbor High Schools.

   In Minnesota: Duluth (Central), Minneapolis Central and East Side High Schools, and St. Mary's Hall and Shattuck School, Faribault.

   In Missouri: Hosmer Hall (St. Louis), St. Louis and Kansas City High and Manual Training Schools.

   In Nebraska: Omaha High School.

   In Ohio: Cleveland (Central), Columbus (Central), Toledo (Central), Dayton (Steele High School), and Youngstown High Schools.

   In Pennsylvania: Pittsburgh Central High School and Westtown Boarding School.

   In Wisconsin: Milwaukee (S., E., and W. Side) and Racine High Schools, Milwaukee Downer College, Milwaukee, and Hillside Home School.

For the year beginning June 19, 1901, credits from the following schools, in addition to the foregoing list, will be accepted for admission to the **Medical Course** of the University: Four-year High Schools and Academies on the accredited lists of the following universities: The University of Wisconsin, the University of Michigan, the University of Minnesota, the University of Iowa, the University of Illinois, the University of Nebraska, the University of Kansas, the University of Indiana, and the University of Ohio.

For the sessions of 1902–3 and 1903–4 there will be required a certificate of admission to the second year of one of the regular courses of the University of Chicago, or to the Sophomore class of an institution of equal rank, or, in lieu of this, examination in the corresponding branches.

For the session of 1904–5, the student must be prepared to enter the Senior College (third academic year) of the University of Chicago, or the Junior class (third academic year) of an institution of similar rank.

See p. 25 of this *Announcement* for the two years' course of college studies recommended for students preparing to study medicine.

Attention is called to the fact that the extra credits which will be required in addition to high-school work (9 Majors in 1902–3, 1903–4; 18 Majors in 1904–5 and thereafter) may be secured in the Colleges of Arts, Literature, and Science of the University of Chicago by attendance upon extra quarters before entering the medical course or, in small part, by taking extra work in these colleges during the student's attendance upon the medical course. A student may qualify for admission to the medical course simply by prolonging his attendance or taking extra work in the University. Credit for such work in any other college or university of equal standing will be accepted.

## ADMISSION TO ADVANCED STANDING

Applicants for admission to advanced standing in the courses for the degrees of A.B., Ph.B., or B.S., University of Chicago, should apply to the University for the Bulletin of Information of the Medical Course.

### ADMISSION TO ADVANCED STANDING IN THE MEDICAL COURSE

The following students are admitted to advanced standing in the medical course:

*First.* Students from other medical schools whose standards are fully equivalent to those of this institution may receive credit for time spent — estimated in months — and for any work successfully completed in such institutions which is equivalent to corresponding work in the medical course. Such a student should give an explicit statement in regard to his preliminary education before beginning the study of medicine, the date of beginning and ending of each session attended in a medical college, together with name of the college and statement of the branches which he has successfully completed; the latter statement should set forth, if possible, the exact number of hours given to each branch.

*Second.* Graduates of recognized Colleges of Arts or Science which require a regular attendance of four years as essential to graduation may be given credit for each major of work (or a full equivalent therefor) which corresponds to any of the work in medical courses. *A Major corresponds to sixty hours of didactic or recitation work, or one hundred and twenty hours of laboratory work*, or of lectures and laboratory work in the given proportion. Students of this class applying for advanced standing should state fully the date of beginning and ending of each session attended at a university or college, together with the name of the college or colleges attended, and a statement of all work which has been taken in any of the following branches: German, French, Chemistry, Physics, and any of the Biological branches.

*Third.* Graduates of reputable and regularly established colleges of dentistry, pharmacy, or veterinary medicine which require before graduation attendance upon a course extending over three or more years, and who can comply with the requirements for admission, may be given credit for any of the work of the Freshman year of the medical curriculum which may have been successfully completed in the institutions mentioned, on condition that they pass examination in those branches at the University.

*Fourth.* To graduates of other reputable institutions, fully recognized by the Illinois State Board of Health, and whose instruction is deemed by the faculty equal to that given at this institution, full credit will be given for the time spent in actual attendance (estimated in months) at such institution, and for such work, successfully completed therein, as may be the equivalent of courses offered at this institution in the Freshman, Sophomore, and Junior years. Every such student must remain in residence at Rush Medical College during at least three quarters, and successfully complete at least ten majors of work, in order to be entitled to receive the degree of Doctor of Medicine. The faculty reserves the right to submit *any* student, applying for advanced standing, to examination in the work completed elsewhere, and for which he asks credit.

*A student may matriculate at any time in person or by correspondence.*

## REQUIREMENTS FOR GRADUATION

The following are the requirements for the degree of Doctor of Medicine:

The candidate must not be less than twenty-one years of age, and must have studied medicine for four years. He must have paid all dues, must have complied with all the requirements, and must have maintained unexceptional conduct while at the College.

He must have attended twelve full quarters or an equivalent amount of time in a recognized medical school, of which at least the last three quarters must have been in this institution, and forty-five months must have elapsed between the beginning of his first course of medical lectures and the date of his graduation.

He must have completed, successfully, all of the work required, as follows:

Eighteen Majors of work in the Freshman and Sophomore years, comprising a minimum of 5 Majors in Anatomy, including gross, and microscopic Anatomy, Human Dissection (one lateral half of the human body), Neurology, and Embryology; 3½ Majors in Physiology, including Physiological Chemistry; 2 Majors in Chemistry; 1 Major in Pharmacology; 2½ Majors in Pathology, including Bacteriology; 4 Majors additional work in one or more of these departments of his choice.

Twenty-two Majors of work in the Junior and Senior years, comprising a minimum of 1½ Majors in Therapeutics and Preventive Medicine; 1 Major in Pathology; 4 Majors in Medicine; 5 Majors in Surgery; 3 Majors in Obstetrics and Gynecology; 1½ Majors in Diseases of the Chest, Throat, and Nose; ½ Major in Diseases of the Eye and Ear; ½ Major in Skin and Venereal Diseases; 4 additional Majors in any branch or branches of his choice.

He must have passed, successfully, a final examination, both written and practical, in each of the separate branches mentioned in the two preceding paragraphs.

---

## GENERAL INFORMATION FOR STUDENTS ENTERING THE FRESHMAN AND SOPHOMORE CLASSES OF THE MEDICAL COURSES

### ROUTINE OF ENTRANCE

#### I. CREDENTIALS

Applications should be addressed to The University of Chicago, Chicago, Ill. When presenting himself for admission to the University, the student should bring his *card of admission credits* if he is entering a Junior College at its beginning; his *letter of dismissal* and an official statement concerning his previous work if he is entering with advanced standing from another institution; and his *diploma* if he is applying for admission to a Graduate School.

These documents should be presented at the office of the dean of the medical course, in Cobb Hall, at the University. Detailed directions will be furnished in the dean's office as to the mode of registering for courses of instruction desired.

#### II. MATICULATION AND REGISTRATION

1. Time of Registration.
   a) Students entering the University *for the first time*, or resuming work after absence for a quarter, will register for the Autumn and Winter Quarters on or before the last day of September or the first and second days of October; and for the Spring and Summer Quarters on or before the last day of March or on the first day of April.
2. Order of Procedure for New Students.
   New students will
   a) In case they come from a secondary school, present credentials to the Dean of Affiliations and secure a card of admission credits. Those entering from colleges submit credentials to the Dean in charge of advanced standing. This may be done by correspondence. New students are urged to send their credentials to the Dean at least two days before they come to register.
   b) *Matriculate* in the office of the Dean of medical students, where a card of instructions will be given him. Matriculation is granted on presentation of the card of admission-credits which entitles the student to enter the University. As evidence of admission the student is given a *Matriculation card.* This should be retained under all circumstances, as it must be shown at each time of registration, and whenever membership in the University is to be demonstrated.
   c) *Register*, in the same office, the courses of study desired for the ensuing quarter. For this purpose the student will be given a *Registration card* for the quarter and, after consultation with the Dean, the courses desired will be entered on this card.
   d) *Pay the University fees* for the ensuing quarter. In order to do this, the student will present the *Matriculation card* and the proper *Registration card* at the office of the Registrar, Cobb Hall, Room A 1. On payment of fees the Registrar will stamp the Matriculation card and return it to the student, together with a receipt for tuition fees and for laboratory fees (if any).

   Details as to fees will be found below.

   The names of the students will be sent to instructors as entitled to attend classes *only after the fees have been paid*, as above specified.

## FEES FOR MATRICULATION, TUITION, ETC.

1. *Matriculation Fee.*
   - *a*) The Matriculation Fee is $5.00 and is required of every student upon entrance to the University. It is payable but once.
   - *b*) A Medical student will also matriculate as a student of Rush Medical College. The fee is $5.00 and the matriculation is good for the complete medical course including the clinical years.
   - *c*) An undergraduate student, candidate for a bachelor's degree, who wishes to take the Medical Course as a part of the work for the bachelor's degree will also matriculate as a student of Rush Medical College at the beginning of the first or the second year of his work in the Medical course. The fee is $5.00 and the matriculation is good for the complete medical course including the clinical years.

Matriculation for Rush Medical College can be accomplished at the University through the Dean of Medical Students.

2. *Tuition Fee.*
   - *a*) The Tuition fee is $40.00 per quarter (including the library and incidental fee, $5.00) for regular work (3 Majors or their equivalent); there is no reduction to those taking only 2 Majors.
   - *b*) A reduction is made in case of students taking only 1 Major (or equivalent), one half the full tuition fee being charged.
   - *c*) Undergraduates (including Unclassified students) taking more than 3 Majors, will be charged (in addition to the regular tuition fee) at the rate of $15.00 for each additional Major.
   - *d*) Physicians and Postgraduates taking only one course (1 Major) are charged $20.00 per quarter; for more than one course the full tuition fee of $40.00 per quarter is charged.
   - *e*) *All tuition and laboratory fees are due and payable on or before the* FIRST *day of* EACH QUARTER. *All fees are payable to the Registrar, Cobb Lecture Hall, Room A1.*

Registration is not complete until all University bills are paid. Those who fail to meet this obligation within the first five days of the quarter are not regarded as members of the University. After the fifth day, to secure membership in the University the consent of the Dean and the payment of a fee of $5.00 for late registration will be required.

3. *Laboratory Fees and Incidental Expenses.*

Students in Chemistry, Practical Gross Anatomy, Splanchnology, Physiological Chemistry, Pharmacology and Pathology pay a laboratory fee of $5.00 for a Major course and $2.50 for a Minor course. Students in Physiology and Bacteriology pay a laboratory fee of $3.00 for a Major course, and $1.50 for a Minor course. Students in Biology, in other courses than those already mentioned, pay $2.50 for a Major course, and $1.25 for a Minor course.

In addition to the regular laboratory fee a deposit of five dollars ($5.00) is required from each student to procure coupon tickets to cover loss and breakage in the laboratories. Unused portions will be redeemed.

All students taking courses in the Department of Physical Culture are required to provide themselves with gymnasium suits for use in the gymnasium. The cost of such a suit is about $4.00.

Each student who procures a skeleton from the Osteological Laboratory will deposit twelve dollars for the same, which sum will be refunded when the skeleton is returned uninjured; he may, however, retain the skeleton if he so desires, in exchange for the amount deposited.

4. *Combined Fee for Tuition and Laboratory Work for Medical Students.*

The total amount of laboratory fees for the required work of the medical course (see pp. 26, 27) is close to $35 a year, distributed, however, unequally in the three quarters. The total tuition fee for three quarters is one hundred and twenty dollars ($120). **Students taking the Medical course will be allowed to pay in lieu of the quarterly tuition fee and all laboratory fees a total fee of ($52.50) per quarter.** When this arrangement is once accepted by the student it becomes binding during the rest of his medical course. The fee will include one coupon ticket for $2.50 (*issued only once in three quarters*) to cover cost of material furnished in the laboratories.

A deposit of $5.00 is required from each student to procure coupon tickets to cover avoidable loss and breakage in the laboratories.

*Medical students who matriculated at* **Rush Medical College** *on or before April 1, 1901, will, in accordance with the terms in vogue at the date of such matriculation, be allowed to pay a total fee of $50.00 per quarter in lieu of the quarterly tuition fee and all laboratory fees.* When this arrangement is once accepted by the student it becomes binding during the rest of his medical course. The fee will include a coupon ticket for $2.50 (*issued only once in three quarters*) to cover cost of material furnished in the laboratories.

## ROOMS, BOARD, AND GENERAL EXPENSES.

Eight dormitories have thus far been erected in the quadrangles. Two of these are reserved for the students of the Divinity School and four are for women. A University House is organized in each dormitory; each House has a Head, appointed by the president of the University, and a House Committee, elected by the members; also a House Counselor, selected from the Faculties of the University by the members of the House. The membership of the House is determined by election, and each House is self-governing under the general control of the University Council.

The cost of rooms in the dormitories is from $20.00 to $57.00 per quarter of twelve weeks. This includes heat, light, and care. The rooms in Snell Hall, and all but one on each floor of Foster, Kelly, Green, and Beecher Halls, are single, and intended for occupancy by one student each, unless special arrangement otherwise is made with the Head of the House. In North Hall the rooms are single and in suites of a study and two sleeping rooms. Diagrams of the halls, showing prices of the rooms, with full particulars, will be sent by the Registrar on application. Rooms will not be rented for a shorter period than a quarter, except in the Summer Quarter. If a student desires to surrender a room at the end of the quarter, notice to that effect must be given the Registrar three weeks prior to that date. The rooms are furnished with study table, chairs, bookcase, bedstead and mattress, bureau-commode, mirror, chamberware, and carpet rug. Rooms cannot be subrented, nor can exchange or transfer of rooms be made except by permission of the Registrar. In case of vacancies, applicants will be assigned rooms in the order of application. Each hall for women has separate dining hall and parlors. The cost of table board in these halls is $42 a quarter.

All applications for rooms, or for information concerning rooms and board within or without the quadrangles, should be made to the Registrar.

Undergraduate students not living in University Houses are not permitted to room in any building in which a family does not reside.

The following table will furnish an estimate of the annual expenses for thirty-six weeks of a medical student in the University, residing within the quadrangles:

| | LOWEST | AVERAGE | LIBERAL |
|---|---|---|---|
| University bill, tuition.........* | $120 00 | $120 00 | $120 00 |
| University bill, laboratory fees† | 37 50 | 37 50 | 37 50 |
| Rent and care of room.......... | 60 00 | 105 00 | 125 00 |
| Board............................ | 90 00 | 126 00 | 225 00 |
| Laundry.......................... | 15 00 | 25 00 | 35 00 |
| Text-books and stationery...... | 10 00 | 20 00 | 50 00 |
| | $332 50 | $433 50 | $592 50 |

It is believed that students who find it necessary to reduce expenses below the lowest of these estimates can do so. Rooms outside the quadrangles, furnished, with heat, light, and care, may be obtained at from $1.00. a week upwards, the $1.00 rate being easily secured where two students room together. Many places offer room and board from $4.50 upwards. There are student clubs which secure board at cost, the rate during the past year ranging from $2.25 to $2.75 a week. A list of approved boarding places outside the quadrangles is kept on file at the room of the Y. M. C. A., Haskell Museum, and information regarding the same may there be obtained.

## GENERAL INFORMATION FOR STUDENTS ENTERING THE JUNIOR AND SENIOR CLASSES AT RUSH MEDICAL COLLEGE

*Attendance.*—In order to be properly credited with attendance on any given term or course, it is imperative that students be present at the opening of each quarter. *No student will be registered after the fifth day of any quarter.*

*Matriculation.*—Each student matriculates on entering the College for the first time, but not for subsequent quarters.

*Registration.*—Each student registers at the beginning of each quarter, or earlier if desired, by the payment of the tuition fee for the quarter, and filing a registration card.

*Selection of Seats.*—A seat in the amphitheater is assigned to each student for the lectures and clinics of his class, which may be selected at the time of matriculation. The seat may also be secured by the payment of $5.00 or more of the tuition for the quarter, and this sum may be sent by mail. Matriculation also may be accomplished by mail.

---

* Medical students attending the first quarter must pay the matriculation fees, $5.00 to the University and $5.00 to Rush Medical College.

† *This item is reduced to $30.00 for Rush Medical students, who matriculated on or before April 1. 1901.*

*Division of Classes into Groups.*—In order to facilitate the arrangement of the classes for work in small groups, each class will be subdivided into groups of twelve students each, each group being designated by a letter. Students will be assigned to groups in the order of registration.

A student, upon entering the College at the beginning of his first Quarter, will procure from the Registrar a blank application for admission, fill out the same carefully, and return it to the Registrar, with the matriculation fee, for which he will receive a receipt.

The student will then present himself to the Dean of students and exhibit to him the credentials for admission and for admission to advanced standing. (See Requirements for Admission to Advanced Standing, pp. 18.)

The Dean will issue a card certifying admission to the proper class, and will advise respecting the courses of study to be taken.

### COLLEGE FEES

Matriculation fee, five dollars, payable but once.

Tuition for each quarter, fifty-two and one half dollars.

A discount of five dollars is made when the fee for three successive quarters is paid in advance.

No student can be assigned to any College work until his fees are paid.

Fees are not accepted after the conclusion of the first week of any quarter.

It is intended to increase gradually the tution fees, *but a student in continuous attendance* (*at least two quarters each year*) *may pursue his whole course by paying the fees in vogue at the time of matriculation.* The annual ticket for each of the various hospitals in the city is usually five dollars. Attendance is obligatory upon the county hospital only.

### DEPOSITS

A deposit of five dollars is required from each student to cover the cost of unnecessary damage in the College buildings, and of avoidable loss and breakage in the laboratories. Deductions will be made from this deposit to cover the cost of articles not returned, or of damage to college property. Each student will be charged for damage or loss for which he is individually responsible, and for his *pro rata* share of damage or loss, the responsibility for which cannot be individually located. The deposit must be made on entering the College.

Members of the graduating class may rent from the College the cap and gown worn at the commencement exercises. These articles are to be returned in good order.

### PHYSICIANS FEE

Graduates of this College are admitted to all lectures upon the payment of annual fee of five dollars. Graduates of other colleges, attending the full course, will pay the fees of undergraduate students.

Special laboratory courses may be taken on the payment of a fee of twenty dollars for each *Major* course.

Graduates of this or other colleges who are visiting the city for a brief time are cordially welcomed, but are requested to procure complimentary tickets at the office.

No one is authorized to make any modification of the terms regarding fees. On financial matters the Registrar, who represents the Comptroller at the College office, should be consulted.

The right is reserved to make changes in the fees, curriculum or in any other matter at any time.

### SCHEDULE OF LECTURE HOURS

Schedules are issued from the College office giving the time and place of each exercise.

### BOARD AND LODGING

Rooms may be obtained in the vicinity of the College at from $1.00 to $3.00 per week. Day board may be had at from $2.00 to $5.00 per week. Board and room together may be obtained at from $3.50 to $7.00 per week. A Bureau of Information is maintained at the College to which students may apply for directions as to desirable board and lodging.

*Books and Instruments.*—The average annual cost of the required books and instruments varies from $15.00 to $20.00.

The following table will furnish an estimate of the expenses of a student for each quarter:

| | LOWEST | AVERAGE | LIBERAL |
|---|---|---|---|
| Matriculation fee, (paid only the first quarter) | $ 5 00 | $ 5 00 | $ 5 00 |
| Tuition for each quarter | 52 50 | 52 50 | 52 50 |
| Board and room | 42 00 | 60 00 | 84 00 |
| Laundry | 5 00 | 7 00 | 12 00 |
| Books and instruments | 5 00 | 7 00 | 12 00 |
| Incidental expenses | 15 00 | 25 00 | 35 00 |
| | $124 50 | $156 50 | $200 50 |

NOTE.—After July 1, 1904, another year will be added to the clinical and practical work of Rush Medical College, making the complete medical course, extend over five years.

### CREDENTIALS FOR WORK

In order to obtain a credit slip for work of any year, each student should leave his correct home address at the College office before June 1. His credit slip will be sent to him by mail, and will show the amount of work done during the preceding year, together with any and all conditions registered against the student.

### THE YOUNG MEN'S CHRISTIAN ASSOCIATION

A branch of the Young Men's Christian Association is in active operation at Rush Medical College, and the headquarters of the West Side Association are situated within a short distance of the College buildings. Membership in this Association, with the privileges of gymnasium, bath-rooms, lecture-courses, etc., may be obtained through the Rush Medical branch at reduced prices.

Further information in regard to the Association may be obtained by application to the Rush Medical College branch of the Association.

## THE QUARTER SYSTEM

The Academic year of Rush Medical College and of the University of Chicago is divided into four quarters. These are designated as the Summer, Autumn, Winter, and Spring Quarters, beginning, respectively, on June 19, 1901, and on the first of October, the first of January, and on the first of April, each continuing for twelve weeks. A recess of one week occurs between the end of each quarter and the beginning of the next following, excepting that there is no recess between the end of the Spring and the beginning of the Summer Quarter, and that there is a recess of one month at the close of the Summer Quarter.

### THE MEDICAL CURRICULUM AS RELATED TO THE QUARTER SYSTEM

The general course of instruction in Rush Medical College requires four years of study in residence, with a minimum of attendance upon three quarters of each year. These years are designated as the Freshman, Sophomore, Junior, and Senior years, respectively.

A student may begin his college work on the first day of any quarter [see, however, p. 26, § 3, No. 3)], and may continue in residence for as many successive quarters as he desires, and will receive credit for work accomplished. Attendance during all the four quarters of the year is optional, but will not secure a time-credit of more than one year in a medical school. At least forty-five months must elapse between the date of a first matriculation and the date of graduation. Under the restrictions imposed, this system does not conflict with the existing medical practice acts, nor with the rulings of the various State Boards of Medical Examiners.

### THE SUMMER QUARTER

Attention is directed to the special opportunities afforded for medical study in the Summer Quarter. The climate of Chicago is particularly well adapted to midsummer work, the clinical resources of the College and of the dispensary being then actually increased in extent and value. At this season, further, diseases may be studied which are rarely encountered during the other months of the year. Instruction in all departments is given in the Summer Quarter.

### REQUIRED, ELECTIVE, AND OPTIONAL COURSES

A certain number of courses, especially in the Freshman and Sophomore years of study, are required as essential to securing credit in making up the four years' curriculum which must precede graduation. All of the courses offered in the Junior and Senior years are elective, that is, the student will be required to select from the list of elective courses a number sufficient to insure him credit for about 12 Majors each year. The term Major is fully explained in another paragraph. By this system the student can select not only his line of study but also his teachers in such special lines; and can, further, so arrange his work that in successive years he can practically include all branches taught in the College. He will be required to present, however, a minimum amount of credit in each department. See Requirements for Graduation.

The quarter system with Elective Courses is especially well adapted to the medical curriculum, and possesses the advantage of allowing each student to select a portion of his studies, and so to adapt his course to his tastes, his abilities, and his needs. This election applies for the present, however, only to the Junior and Senior years.

Optional courses, in addition to those described above, are offered to students who desire to add to the regular work as outlined in the requirements for graduation. These optional courses are designed to promote a higher scholarship and to increase facilities for work in special departments.

### DEFINITION OF MAJOR AND MINOR

A Major course is defined as a didactic or recitation course, occupying five hours a week for one quarter (a total of 60 hours), or a laboratory, practical, or clinical course, occupying ten hour a week for one quarter (a total of 120 hours). A double Major occupies twice the number of hours per week for the quarter.

A Minor course is a didactic or recitation course, occupying five hours a week for one half a quarter, or six weeks; or a laboratory course, occupying ten hours per week for a similar period. The value of each course in the following departmental statements is stated as a *major* (Mj.), a *double major* (DMj.), a *minor* (M.), a *double minor* (DM.), or the decimal fraction of a *major* or *minor*.

## GRADUATE COURSES IN MEDICINE FOR PHYSICIANS AND ADVANCED STUDENTS

Special opportunities are afforded to physicians and graduate students at Rush Medical College and at the University for advanced and research work in Physics, Chemistry, Zoölogy, and Embryology, Anatomy, Neurology, Physiology, Physiological Chemistry, and Pharmacology, and in Pathology and Bacteriology in Medicine, Surgery, Obstetrics, Gynecology, and in the other clinical departments. Research work may be conducted independently, or under the direction of an instructor in the department to which it belongs.

Physicians are admitted on payment of the matriculation fee, and payment of fees in proportion to the amount of work taken (see p. 22). The applicant's fitness for any course which he desires to take, should be ascertained by consultation with the head of the respective department.

Courses especially adapted to students of this class are outlined in pages 40 to 50 of this *Announcement.* Correspondence is invited in reference to special work other than the courses offered. It will be sufficient to address letters in reference to such courses to Rush Medical College.

Students desiring to engage in work leading to the degrees of Master of Science, Master of Arts, Master of Philosophy, or to the degree of Doctor of Philosophy, are requested to write for the Circular of Information of the Graduate Schools, the University of Chicago.

## THE DEGREES OF S.B., A.B., AND PH.B.

### (THE UNIVERSITY OF CHICAGO)

#### MEDICAL WORK IN THE COURSES FOR THE BACHELOR'S DEGREES

The first two years' work in medicine consists almost entirely of courses in pure science, which are open as electives to all candidates for a bachelor's degree at the University, who have had the necessary preliminary work in science.

*Medical Work in the Course for Bachelor of Science.*—A student who has completed the work of the Junior College of Science (two years) at the University or the second year at a college of good standing, whose credits are accepted as a full equivalent of the corresponding courses at the University, may enter the Senior College (first year) at the University and take the first two years' work in medicine as the third and fourth year of his bachelor's course, and, provided he also takes the specified required courses (three Majors in History and Philosophy) of the Senior College of Science, either in an extra quarter or as extra work during three quarters, receive the degree of S.B. on the completion of the second year's work in Medicine.

For the completion of the required work for the degree of S.B. and of the first two years in medicine, a student will need, altogether, from four to four and a half years, after entering the Junior College (Freshman year), or two to two and a quarter years after entering the Senior College (Junior year), depending on the amount of work he carries per quarter.

*Science Work preparatory to the Study of Medicine for S.B. Candidates.*—Candidates for the S.B. degree who intend to study medicine are strongly advised to take in their first two years at college (Freshman and Sophomore years) a large amount of work in Physics, Chemistry, and Biology, as giving the best foundation for the study of medicine (see below recommended course of study for students preparing to study medicine).

*Medical Work in the Course for the Bachelor of Arts or Philosophy.*—A student who has completed the work of the Junior College of Arts or Philosophy (two years) at the University of Chicago or the Sophomore year at a college of good standing, whose credits are accepted by the University as a full equivalent of the corresponding courses, may enter the Senior College (third year) at the University and take from one to one and a half years' work in medicine as part of his bachelor's course and, provided he also takes the required work of the Senior College of Arts or Literature (four courses), receive the degree of A.B. or Ph.B. on the completion of two years' work in college. The remainder of the medical work of the first two years may be taken after graduation and with all the privileges of graduate students.

For the completion of the required work for the degree of A.B. or Ph.B. and of the first two years, work in medicine a student will need from four and a half to five years after entering the first year of the Junior College, or two and a quarter to three years after entering the Senior College (Junior year) of the University of Chicago.

Candidates for the A.B. or Ph.B. degree who intend to study medicine are strongly advised to take in their first three years at college a large amount of work in Physics, Chemistry, and Biology as giving the best foundation for the study of medicine (see below, recommended course of study for students preparing to study medicine).

*For information in detail regarding the requirements for the bachelor's degrees at the University of Chicago see the Circular of Information for the Colleges.*

### II. COURSE OF COLLEGE STUDIES RECOMMENDED FOR STUDENTS PREPARING TO STUDY MEDICINE

1) The College studies which are recommended for students preparing to study medicine are as follows:*
**English,** 3 Majors; **French or German,** 3 Majors (a reading knowledge in each language must be obtained from these courses and those offered for admission to College); **Mathematics,** 2 Majors; **History,** 2 Majors; **Philosophy,** 1 Major †; Physics, 3 Majors; Chemistry, 5 to 6 Majors: General Chemistry, Qualitative Analysis, Organic Chemistry; General Biology, 1 Major; Comparative Anatomy, 1 or 2 Majors.

These twenty-one (21) to twenty-four (24) Majors will require seven (7) to eight (8) quarters for completion. The History and Philosophy, or part of the Chemistry or Biology, may be taken during the time that the student is doing his first two years' work in medicine.

2) For students who wish to devote three years in college in preparing for medicine before entering on medical work proper, the following courses are recommended for the choice of additional electives: Greek, 3 Majors; Calculus, 1 Major; Elementary Botany, 1 Major, Course 1; General Morphology of Thallophytes, 1 Major, Course 7; Introductory Physiology, 1 Major, Course 1; Physical Chemistry, 1 Major, half-Major Courses 31 and 32 or Course 23; Quantitative Chemical Analysis, 1 Major, Course 9; Physiography, 1 Major.

## THE WORK OF THE MEDICAL COURSE FOR THE FRESHMAN AND SOPHOMORE YEARS

1. *Outline of the Course.*

The course for the first two years' work in Medicine consists mainly of instruction in the fundamental medical sciences: Chemistry, Human Anatomy, Microscopic Anatomy, Histology, Neurology, and Embryology, Physiology, Physiological Chemistry, Toxicology, Pharmacology, Pathology, and Bacteriology.

2. *Amount of Work.*

The amount of work required is eighteen Majors. A *Major* (Mj.) is the unit of work and consists of five hours per week in class-room throughout one quarter (12 weeks) or the equivalent amount of laboratory work a week (a total of 60 hours class-room work or the equivalent amount of laboratory work). From two to three hours of laboratory are regarded as the equivalent of one hour of class-room work.

---

*The required courses for the S.B. degree are given in **bold-faced** type; the courses recommended to be chosen as electives are given in common type.

† **Latin** (3 Majors) is required if only two units of Latin have been offered for admission to college.

3. *The Curriculum.*

1) Except in the case of certain students with special preparation (see below, 2) all the work of the Medical Course is prescribed for those who wish to receive credit for the first two years' work in Medicine. It consists of the following courses:[*]

   *a*) CHEMISTRY, 2½ Major (1B, 2B, and 4[¶]).
   Toxicology, ½ Major (Chemistry 19).[†]

   *b*) HUMAN ANATOMY : 6½ Majors.
   Histology, Minor (1A).
   Osteology, Minor (3).
   Introductory Anatomy, Minor (4).
   Two of these three Minor courses must be taken.
   Human Anatomy, including Dissecting, three Majors (4, 5, 6).
   Splanchnology, ½ Major (2).
   Embryology, 1 Major (Zoölogy 17).
   Neurology, 1 Major (Neurology 3).

   *c*) PHYSIOLOGY : 6 Majors :
   Physiology, 3 to 3½ Majors (12, 13, 14).
   Physiological Chemistry, 1½ Majors (20).
   Pharmacology, 1 Major (21).

   *d*) PATHOLOGY : 3 Majors :
   Bacteriology, 1½ Majors (1).
   Pathology, 1½ Majors (3, 4).

2) An undergraduate or graduate student, who has completed substantially the course of college studies recommended as a preparation for Medicine (see p. 25), or who has taken the Freshman and Sophomore years of a university or college of good standing, and has acquired a good knowledge of physics, chemistry, and biology, and a reading knowledge of German and French, may elect his work in the medical course, in view of his special preparation for the medical branches. His selection is subject to the approval of the Dean of the Medical Course, and of the head of each department in which he elects work. In choosing his work he should keep in mind that a minimum amount of work in the several branches is demanded in the course for the degree of Doctor of Medicine (see, for example, "Requirements for Graduation in Rush Medical College," pp. 18, 19 of this *Announcement*).

3) The curriculum of instruction has been arranged in such a way as to insure for the student beginning his medical studies with any single quarter of the year, a complete annual course during any three consecutive quarters, but students are advised to enter at the beginning of the Autumn Quarter, if possible.

NOTE.—When, however, a student has not taken Chemistry in his high school or academy course, he is advised to enter the University for the Summer Quarter (beginning in 1901 on June 19, and closing August 31) in order to make up this deficiency in Chemistry.

The following table shows the arrangement of the courses for the six quarters of work comprised in the first two years of Medicine and the recommended sequence of studies. No student, however, is obliged to follow the order given, or to take full work in any quarter. Credit will be given for every course satisfactorily completed.

In the **Summer Quarter, 1901,** the following courses for Medical students are announced (for further information apply for *Quarterly Announcements*, Summer Quarter, 1901): General Physics, General Inorganic Chemistry, General Organic Chemistry, Bacteriology, Embryology, Histology, Splanchnology, Osteology, Neurology, and advanced courses in Physics, Chemistry, Biology, Anatomy, and Neurology. Special courses for physicians are given in Anatomy.

4. *Arrangement of Courses for Six Quarters.*

### FIRST NINE MAJORS OF WORK

AUTUMN, 1901

*Chemistry*[†] (1 B[§]), Major; *Histology*[‡] (Anat. 1 A), Minor; *Osteology*[‡] (Anat. 3), Minor; *Introductory Anatomy*[‡] (0), Minor; *Human Anatomy* (4), Double Minor. The following other courses are given in this quarter, and are open to students with advanced standing and the necessary prerequisites : Bacteriology, Physiology, Analytical and Organic Chemistry,

---

[*] Detailed statements concerning the courses are given below under the various departments of instruction. They should be consulted in every case *in regard to equivalent courses which may be substituted for those the numbers of which are given in the above table.*

[†] When no credit has been received for High School Chemistry on admission, two additional Majors must be taken. See footnote p. 36.

[¶] The numbers refer to the course numbers in the corresponding department.

[§] The numbers refer to the course numbers in the departments named. The departmental announcements below should be consulted in regard to equivalent courses which may be substituted for those the numbers of which are given in the above table.

[‡] Two of the three Minors are to be chosen.

Toxicology, Human Anatomy, and advanced work in all of the departments.

WINTER, 1902

*Chemistry* (2B), Major; *Splanchnology* (Anat. 2), Half Major; *Human Anatomy* (5 and 6), One and a half Majors. Other courses given: Physiology, Analytical and Organic Chemistry, Physiological Chemistry, Pathology, and advanced work in all of the departments.

SPRING 1902

*Chemistry* (4), Half Major; *Embryology* (Zoölogy 17), One Major; *Physiology* (12), One and a half Majors. Other courses given: Embryology, Analytical and Organic Chemistry, Pathology, and advanced work in all of the departments.

SECOND NINE MAJORS OF WORK;

AUTUMN, 1901

*Bacteriology* (Pathol. 1), One and a half Majors; *Physiology* (13), One Major; *Human Anatomy* (6), One Minor. Other courses given: Toxicology, Human Anatomy, Chemistry, and advanced work in all of the departments.

Students entering from Rush Medical College (the Freshman class of 1900–1) will take only one Major of Bacteriology and also a half Major of *Toxicology* (Chem. 19).

WINTER, 1902

*Physiological Chemistry* (Physiol. 20), One and a half Majors; *Pathology* (3), One-half Major; *Physiology* (14), One Major. Other courses given: Neurology, Human Anatomy, Splanchnology, Chemistry, and advanced work in all of the departments.

Students entering from Rush Medical College (the Freshman class of 1900–1) will take *Neurology* (3), in place of Physiology.

SPRING, 1902

*Pathology* (4), One Major; *Pharmacology* (Physiol. 21), One Major; *Neurology* (3), One Major. Other courses given: Embryology, Physiology, Human Anatomy and Chemistry, and advanced work in all of the departments.

Students entering from Rush Medical College (the Freshman class of 1900–1) will take *Embryology* (Zoölogy 17) in place of Neurology.

---

## I. DEPARTMENT OF ANATOMY

INCLUDING COURSES IN DEPARTMENTS XXIII, ANATOMY, XXII, ZOÖLOGY, AND XXV, NEUROLOGY, THE UNIVERSITY OF CHICAGO

### *XXIII. THE DEPARTMENT OF ANATOMY*

OFFICERS OF INSTRUCTION

LEWELLYS F. BARKER, M.B., *Professor and Head of the Department of Anatomy*
ALBERT CHAUNCEY EYCLESHYMER, PH.D., *Instructor in Anatomy*
CHARLES A. PARKER, M.D., *Instructor in Anatomy*
THOMAS A. OLNEY, M.D., *Instructor in Anatomy*
DONALD JOHN ARMOUR, A.B., M.B., *Instructor in Anatomy*
PRESTON KYES, A.M., M.D., *Associate in Anatomy*
IRVING HARDESTY, PH.D, *Assistant in Anatomy and Neurology*
DEAN D. LEWIS, A.B., M.D., *Assistant in Anatomy*
————, *Assistant in Anatomy*

FELLOWS

1901-1902

DANIEL GRAISBERRY REVELL, M.B.
LOUIS N. TATE, A.B.

INTRODUCTORY

The general outline of the work provided for in courses is as follows: During the First Term of the Autumn Quarter, Introductory Anatomy, Osteology and Histology are studied; in the Second Term of the same quarter Histology is continued, and Systematic Anatomy, including dissection, is begun; in the Winter Quarter Splanchnology is taken up, and Systematic Anatomy, including dissection, is continued. In the

Spring Quarter Neurology and Embryology are studied. The teaching is chiefly by means of laboratory work under direction; but this may be supplemented by demonstrations, lectures, and recitations. During the Summer Quarter courses are given in Histology, Splanchnology, Osteology, and Neurology. Special courses for Physicians and Advanced Students are offered in the Summer Quarter; these includes courses in the Anatomy of the Eye and Ear, Nose and Throat, and Pelvic Viscera. Research work is offered every quarter.

For each Major course requiring laboratory work the laboratory fee is $2.50, excepting Practical Gross Anatomy, for which the fee is $5.00. (See p. 20.) Students will be advised at the beginning of each course as to the text-books recommended.

### COURSES OF INSTRUCTION

Summer Quarter, 1901 — Spring Quarter, 1902

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

0. **Introductory Human Anatomy.**— An elementary course intended for beginners in human anatomy. Anatomical terms are defined; the elements of topographical anatomy are studied on the living human body and on the cadaver.

M. First Term, Autumn Quarter.
Lectures: Thurs., Fri., 2:00.
Recitation: Wed., 2:00.
Laboratory: Wed., Thurs., Fri., 3:00–5:00.
PROFESSOR BARKER AND ASSISTANTS.

1. **Histology and Cytology.**—This course begins with the study of the cell, its variations in form, its anatomy, and its proliferation, and then takes up the study of the fundamental or simple tissues as they are composed of various cells and cell elements.

Lectures, Demonstrations, and Laboratory work. Mj. Autumn Quarter.
Lectures: Thurs., Fri., 8:30.
Recitation: Sec. *a*, Mon., 8:30.
Sec. *b*, Mon., 11:00.
Laboratory: Thurs., Fri., 9:30–12:00.
DR. EYCLESHYMER, DR. HARDESTY, AND ASSISTANTS.

1A. **Histology and Cytology.**—A briefer course than Course 1.

Lectures, Demonstrations, and Laboratory work. M. First Term, Autumn Quarter.
Lectures: Thurs., Fri., 8:30.
Recitation: Sec. *a*, Mon., 8:30.
Sec. *b*, Mon., 11:00.
Laboratory: Thurs., Fri., 9:30–12:00.
DR. EYCLESHYMER, DR. HARDESTY, AND ASSISTANTS.

Repeated as M. First Term, Summer Quarter.
Lectures: Mon., Wed., 8:00.
Laboratory: Mon.–Wed., 9:00–11:30.
DR. HARDESTY.

2. **Splanchnology.**—The different Organs of the body are studied. Especial effort will be made to bridge the gap between gross and microscopic anatomy by extensive use of the dissecting microscope. ½Mj or Mj. Winter Quarter.

Lectures: Thurs., Fri., 8:30.
Recitation: Sec. *a*, Mon., 8:30.
Sec. *b*, Thurs., 12:00.
Laboratory: Thurs., Fri., 9:30–11:00.
PROFESSOR BARKER, DR. EYCLESHYMER, AND ASSISTANTS.
Prerequisite: *Course 1, or an equivalent.*

2A. **Splanchnology.**—This course covers the ground of Course 2, but is concentrated into one term.

M or DM. Second Term, Summer Quarter.
Lectures: Mon.–Thurs., 8:00.
Laboratory: Mon.–Fri., 9:00–12:30.
DR. EYCLESHYMER.

3. **Human Osteology.**—The bones of the human skeleton are studied, drawn, or modeled. The development of the osseous system in man and the differences in the skeletons in a series of animals are briefly dealt with.

M. First Term, Autumn Quarter.
Lectures: Mon., Fri., 12:00.
Recitation: Sec. *a*, Mon., 2:00.
Sec. *b*, Tues., 12:00.
Laboratory: Sec. *a*, Mon., Tues., 2:00–5:00.
Sec. *b*, Tues., Wed., 9:30–1:00.
——— AND ASSISTANTS.

3A. **Human Osteology.** — The point of view in this course will be partly comparative and partly embryological. All of the bones in the human body will be either drawn or modeled in the laboratory. M. First Term, Summer Quarter.

Lecture: Wed., 1:30.
Laboratory: Mon., Wed., Fri., 1:30–4:30.
MR. REVELL.

NOTE.—Laboratory fees for M course, $2.50, DM course, $5.00.

4, 5, 6. **Systematic Human Anatomy** (*Arm and Wall of Thorax, Leg and Abdomen, Head, Neck, and Thoracic Viscera*).—The courses include lectures, recitations, and laboratory work in the dissecting-room.

The lectures form a continuous course. Work may be begun in either the Autumn or Winter Quarter in any of the courses. 3Mjs or 3DMs.

*Lectures.*—The lectures advance in the order of *A*, *B*, and *C*.

*A*. Autumn Quarter, Second Term, Mon., Fri. 12:00.

*B*. Winter Quarter, Mon., Wed., Fri., 12:00.

*C*. Autumn Quarter, Second Term, Wed. Thurs., 8:30.

PROFESSOR BARKER, MR. ARMOUR,
AND DR. KYES.

*Recitations.*—The recitations advance in the order of *A*, *B*, and *C*.

*A*. Autumn Quarter, Second Term.
Sec. *a*, Tues., 2:00.
Sec. *b*, Wed., 2:00.

*B*. Winter Quarter. Sec. *a*, Mon., 2:00.
Sec. *b*, Tues., 12:00.

*C*. Autumn Quarter, Second Term.
Secs. *a* and *b*,

MR. ARMOUR, DR. KYES, DR. LEWIS,
AND MR. REVELL.

*Laboratory work.*

Autumn Quarter, Second Term (Beginners).
Sec. *a*, Mon.–Fri., 2:00–5:00.
Sec. *b*, Mon., Tues., 9:30–1:00; Wed.–Fri., 2:00–5:00.

Winter Quarter.
Sec. *a*, Mon.–Fri., 2:00–5:00.
Sec. *b*, Mon., Tues., 9:30–1:00; Wed.–Fri., 2:00–5:00.

Spring Quarter, First Term.
The laboratory is open for elective work.

Autumn Quarter, Second Term (Advanced).
Sec. *a*, Mon.–Fri., 9:30–12:00.

Winter Quarter (Advanced).
Sec. *b*, Wed.–Fri., 8:30–12:00.

PROFESSOR BARKER AND ASSISTANTS.

The laboratories for dissecting are open every day from 8:30 A.M. to 6:00 P.M. (Saturdays till 1:00 P.M.), during the Second Term of the Autumn Quarter, during the Winter Quarter, and during the First Term of the Spring Quarter, and students are allowed to work extra hours in the laboratory at any time during these periods.

Courses 4, 5, and 6 will also be offered at Rush Medical College during the Winter Quarter, 1902. Hours to be announced. DM.

DRS. PARKER AND OLNEY.

7. **Neurology.** — Elementary histology and microscopic anatomy of the nervous system and the sense organs. See Department XXV, Courses 3 and 3A, etc.

8. [Zoölogy 17] **Vertebrate Embryology.**—Lectures, demonstrations, and laboratory work.
Mj or DMj. Spring Quarter.
ASSISTANT PROFESSOR LILLIE.

9. **Seminar.** — A limited number of students can by special arrangement be admitted to a seminar in which subjects of current interest in Gross or Microscopic Anatomy will be discussed.
1–2Mjs. Autumn and Winter Quarters.
Hours to be arranged.
PROFESSOR BARKER.

10. **Advanced Work and Original Research.** — Excellent opportunities are afforded for advanced work in all departments of Anatomy, and especially for original investigation in anatomical problems. Suitably trained and endowed students who have the time to undertake such work will be encouraged to do so. Those capable may work independently; a limited number can be led into such work under direction.
1–4Mjs. Autumn, Winter, Spring, and Summer Quarters.
PROFESSOR BARKER AND ASSISTANTS.

11. **Special Advanced Anatomy for Physicians and Advanced Students:** *Eye and Ear.*
DM. First Term, Summer Quarter.
PROFESSOR BARKER AND DR. FLINT.

12. **Special Advanced Anatomy for Physicians and Advanced Students:** *Nose and Throat.*
DM. First Term, Summer Quarter.
PROFESSOR BARKER AND DR. FLINT.

15. **Special Advanced Anatomy for Physicians and Advanced Students:** *Pelvic Viscera and Pelvic Floor.* DM. First Term, Summer Quarter,
PROFESSOR BARKER AND DR. FLINT.

NOTE.—The work in Courses 10, 11, 12, and 15 will be largely independent. Material will be provided, and students will make special dissections under direction. Occasional lectures will be given as the work requires. The hours for these courses can be arranged to suit applicants.

13. **Histogenesis.** — The changes taking place in the elemental tissues from the blastogenic period to adult life. Certain tissues will be taken as types of the general problems of development and discussed from this point of view.

M. First Term, Summer Quarter.

Lectures and Laboratory : Thurs.–Sat., 8:00–11:30.

Dr. Eycleshymer.

14. **Organogenesis.** — The changes in structure of certain organs from their appearance in the embryo, to adult life, will be followed in this course.

M. First Term, Summer Quarter.

Conference, Lectures, and Laboratory: Thurs.–Sat., 8:00–11:30. Dr. Flint.

Prerequisite for Courses 13 and 14: *A knowledge of the main facts of Embryology and Histology.*

16. **Histological Technique.**—The main methods of histological preparation. In the laboratory work students will prepare specimens by the various methods of fixing, hardening, staining, and sectioning now in general use.

M. First Term, Summer Quarter.

Lecture and Laboratory: Tues., Wed., Fri., 1:30–4:30.

Professor Barker and Assistants.

---

## *XXII. THE DEPARTMENT OF ZOÖLOGY*

### OFFICERS OF INSTRUCTION

CHARLES OTIS WHITMAN, Ph.D., LL.D., *Professor and Head of the Department of Zoölogy*
CHARLES BENEDICT DAVENPORT, Ph.D., *Associate Professor of Zoölogy and Embryology*
FRANK RATTRAY LILLIE, Ph.D., *Assistant Professor of Zoölogy and Embryology*
CHARLES MANNING CHILD, Ph.D., *Instructor in Zoölogy*

---

ELLIOT ROWLAND DOWNING, S.M., *Assistant in Zoölogy* (Summer Quarter, 1901)

### FELLOWS

1901–1902

CHARLES CHRISTOPHER ADAMS, S.M. EUGENE HOWARD HARPER, A.M.
WILLIAM LAURENCE TOWER, S.B.

### INTRODUCTORY

In the department are offered (1) courses in General Biology and Comparative Anatomy, which form the foundation for the study of Medicine, and which are strongly recommended to college students preparing to study Medicine (see p. 26); (2) a course in Embryology, which is required of all medical students; and (3) advanced and research work for advanced special students.

The courses designed for graduate and advanced undergraduate students presuppose the work of the elementary courses, together with corresponding training in Physics and Chemistry, and ability to read German and French.

The research courses are designed for students and Fellows who are beginning original work, or who are already advanced in such work. The regular research courses, will be supplemented by the work of the Zoölogical Club and the Journal Club.

During the Summer Quarter general courses in Zoölogy will be given at the University, at the Marine Biological Laboratory, Wood's Holl, Mass., and at the Biological Laboratory, Cold Spring Harbor, L. I. Provision will also be made for research students at these places.

### COURSES OF INSTRUCTION

Summer Quarter, 1901 — Spring Quarter, 1902

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks, Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

### JUNIOR COLLEGE COURSES

5. **General Biology.** — Lectures and demonstrations dealing with topics of a general biological nature, such as: protoplasm; taxonomy; distribution and comparative anatomy in their relation to evolution; the cell theory; sex; growth; reproduction; development; the biogenetic law; evolution of the nervous system and sense organs; habit and instinct; special adaptations; variation; heredity; theories of evolution.—Open to all University students.

Mj. Winter Quarter.

Lectures: Tues.-Fri.; 4:00.
Laboratory: 2 hrs. on Friday afternoon or Saturday morning.

ASSOCIATE PROFESSOR DAVENPORT.

With the coöperation of Professors Whitman, Donaldson, Loeb, Jordan, Lillie, Dr. Child, and others.

### SENIOR COLLEGE COURSES

15. **Comparative Anatomy of Vertebrata.** —Lectures, demonstrations and laboratory work. The comparative anatomy of Amphioxus, Cyclostomes, fishes, amphibia, reptiles, and birds.

Mj or DMj. Autumn Quarter.
ASSISTANT PROFESSOR LILLIE.

Prerequisite: *Courses 1, 2, and 3.*

16A. **Comparative Anatomy of Vertebrata** (*continued.*)—Mammalian Anatomy.

M or DM. First Term; Winter Quarter.
ASSISTANT PROFESSOR LILLIE.

16B. **General and Experimental Embryology.**

Mj. Summer Quarter.
MR. DOWNING.

M or DM. Second Term; Winter Quarter.
ASSISTANT PROFESSOR LILLIE.

Prerequisite: *Course 15.*

17. **Vertebrate Embryology.** — Lectures, demonstrations, and laboratory work. For medical and pre-medical students. Special arrangements are made for more advanced students.

Mj or DMj. Spring Quarter.
ASSISTANT PROFESSOR LILLIE.

NOTE.—Courses 15, 16, and 17 constitute a course in Vertebrate Morphology running through the year, and should be taken together.

The ADVANCED (GRADUATE) COURSES for special students are described in the announcements of the department.

---

## *XXV. THE DEPARTMENT OF NEUROLOGY*

### OFFICERS OF INSTRUCTION

HENRY H. DONALDSON, PH.D., *Professor and Head of the Department of Neurology*
IRVING HARDESTY, PH.D., *Assistant in Neurology*

### FELLOWS

1901-1902

SHINKISHI HATAI. CHARLES INGBERT, A.B.

### INTRODUCTORY

The courses here offered are intended to furnish an account of the histology, microscopic anatomy, and architecture of the Nervous System such as will be required by Students of Anatomy and those working in Medicine or Psychology, and also to give the opportunity both for the investigation of new problems and for a critical discussion of current work in Neurology. Course 3, together with Courses 1 and 2 in the Department of Anatomy, constitute the required work in Histology and Microscopic Anatomy for those taking the first six quarters' work in Medicine.

For each Major course requiring laboratory work the laboratory fee is $2.50.

## COURSES OF INSTRUCTION

Summer Quarter, 1901—Spring Quarter, 1902

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

1A. **The Architecture of the Central Nervous System.** The construction of the Nervous system is described with a view to explaining the pathways of the nerve impulses within it.

DM. Second Term, Summer Quarter.

Lectures: Mon.–Thurs., 8:30.
Laboratory: 10 hrs. a week.

Dr. Hardesty
and Mr. Hatai.

1. **The Architecture of the Central Nervous System** = Course 1A. Mj. Autumn Quarter.

Lectures: Mon., Tues., 9:30.
Laboratory: Thurs., Fri., 2:00–4:00.

Professor Donaldson
and Dr. Hardesty.

Prerequisite: *Splanchnology.*

2. **The Growth of the Brain and its Physical Characters as related to Intelligence.**

Mj. Winter Quarter.

Lectures: Mon., Tues., 9:30.
Laboratory: Thurs., Fri., 2:00–4:00.

Professor Donaldson.

Prerequisite: *Splanchnology.*

3. **Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs.** This course forms the last portion of a year's work in Histology and Microscopic Anatomy.

Mj. Winter Quarter.

Lectures: Mon., Tues., 8:30.
Recitation: Wed., 8:30.
Laboratory: Mon., 9.30–1:00; Tues., 9:30–12:00.

Professor Donaldson
and Dr. Hardesty.

Prerequisite: *Splanchnology.*

3A. **Comparative Histology of the Central Nervous System and Sense Organs.**—This course is supplementary to Course 3, and offers more histological work on lower vertebrates, special attention being given to the internal and external morphology of the neurons.

Mj. Spring Quarter.

Lectures: Mon., Tues., 8:30.
Laboratory: Mon., Tues., and Wed. forenoons.

Dr. Hardesty.

Prerequisite: *Histology and Cytology.*

3B. **Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs** (repeated). See Course 3.

DM. First Term, Summer Quarter.

Lectures: Mon., Tues., 8:30.
Laboratory: 10 hrs. a week.

Professor Donaldson, Dr. Hardesty,
and Mr. Hatai.

4, 5, 6, 7. **Seminar.**—The purposes of the Seminar are threefold:

*a*) Initiation into the methods of research.
*b*) The history of the guiding conceptions in Neurology.
*c*) Discussion of such literature as is too technical for presentation at a general Journal Club.

3½Mjs. First Term Summer Quarter; Autumn, Winter, and Spring Quarters.

2 hrs. a week. Summer Quarter, Fri., 8:30; Autumn and Winter Quarters, Tues., 3:00–5:00; Spring Quarter, Thurs., 3:00–5:00.

Professor Donaldson.

Admission to the Seminar is granted only after consultation with the head of the department.

8, 9, 10, 11. **Research Courses.—The Study of Neurological Problems.**

3½Mjs. First Term Summer Quarter; Autumn, Winter, and Spring Quarters. Laboratory work. Throughout the year.

Professor Donaldson.

Prerequisite: *A knowledge of the main facts of Neurology.*

## II. DEPARTMENT OF PHYSIOLOGY

(AT THE UNIVERSITY DEPARTMENT XXIV, INCLUDING PHYSIOLOGICAL CHEMISTRY AND PHARMACOLOGY)

### OFFICERS OF INSTRUCTION

JACQUES LOEB, M.D., *Professor and Head of the Department of Physiology*
B. McPHERSON LINNELL, M.D., *Assistant Professor of Physiology*
ELIAS POTTER LYON, PH.D., *Assistant Professor of Physiology*
ALBERT PRESCOTT MATHEWS, PH.D., *Assistant Professor of Physiological Chemistry*
DAVID JUDSON LINGLE, PH.D., *Instructor in Physiology*
MARTIN FISCHER, M.D., *Associate in Physiology*
—————————, *Assistant in Pharmacology*
—————————, *Assistant in Physiological Chemistry*

### FELLOWS

1901-1902

CHARLES HUGH NEILSON, A.M. ARTHUR WHITE GREELEY, A.M.

### INTRODUCTORY

The required or minimal work for medical students includes Courses 12, 13, and 14; it is distributed over three quarters, beginning in the Spring Quarter of the first year and extending over the Autumn and Winter Quarters of the second year. Included in the courses mentioned, one to two weekly conferences will be held in which students will have an opportunity to discuss the problems worked out in the laboratory. In these courses special attention will be given to the following points: (1) The student will become familiar with the traditional and classical facts and experiments in Physiology; (2) the student will acquire sufficient knowledge of the recent advances and methods of Physiology to allow him to follow intelligently and accurately the changes necessitated by their probable bearing on medicine. For example, special attention will be given to the application of Physical Chemistry to physiological problems.

For students who have finished a year's work in Physiology and wish to specialize in certain branches of scientific or practical medicine, special quarterly courses will be offered. Such courses are, for example, the Physiological Effects of Ions, Physiological Morphology, Theory of Space Sensations, Functions of the Cortex, Comparative Physiology of the Central Nervous System, the Internal Secretions, etc. These courses consist chiefly of laboratory work.

Any of the recent standard text-books may be used for the courses in this department.

### COURSES OF INSTRUCTION

Summer Quarter, 1901 — Spring Quarter, 1902

M=Minor course=a single course of six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks.
Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

#### JUNIOR COLLEGE COURSES

1. **Introductory Physiology.**—The aim of this course is to familiarize the student with the structure and functions of the human body. Text-book: Martin's *Human Body.*

Mj. Summer Quarter; Mon.–Fri., 8:30.
DR. LINGLE.

Repeated in Autumn, Winter and Spring Quarters; 8:30. DR. LINGLE.

#### SENIOR COLLEGE COURSES

11. **Laboratory Course in Physiology.**

Mj. Summer Quarter; Wed.–Fri., 2:00–5:00.
DR. LINGLE.

Prerequisite: *A thorough knowledge of the main facts of Physiology.*

12. **Physiology of Nerves and Muscles, of Circulation and Respiration.** 1½ Mjs. Spring Quarter.

Lectures: Mon.–Wed., 12:00.
PROFESSOR LOEB.

Conferences: Thurs., Fri., 12:00.
ASSISTANT PROFESSOR LYON,
DR. LINGLE, AND DR. FISCHER.

Laboratory:
Sec. *a*, Mon., 8:30–12:00, Tues., 9:30–12:00.
Sec. *b*, Wed., Fri., 9:30–12:00.
ASSISTANT PROFESSOR LYON,
DR. LINGLE, AND DR. FISCHER.

Prerequisite: *XIX–1, 2; XX–1, 2.*

13. **General and Theoretical Physiology.**—Including the Physiology of Metabolism, Absorption, Secretion, and Heat. Mj. Autumn Quarter.

Lectures: Mon.–Wed., 12:00.
PROFESSOR LOEB.

Conference: Thurs., 12:00.
ASSISTANT PROFESSOR LYON, DR. LINGLE, AND DR. FISCHER.

Laboratory: Sec. *a*, Thurs., Fri., 2:00–5:00.
Sec. *b*, Mon., Tues., 2:00–5:00.
ASSISTANT PROFESSOR LYON, DR. LINGLE, AND DR. FISCHER.

Offered also at Rush Medical College, Winter Quarter, 1902.
ASSISTANT PROFESSOR LINNELL.

14. **Physiology of the Central Nervous System and the Senses.** Mj. Winter Quarter.

Lectures: Mon.–Wed., 11:00.
PROFESSOR LOEB.

Laboratory: Thurs., Fri., 9:00–12:00.
ASSISTANT PROFESSOR LYON, DR. LINGLE, AND DR. FISCHER.

15. **Special Physiology of Mammals.**—Including the repetition of classical experiments such as those on blood pressure, vaso-motor nerves, secretion, localization, with study of the original sources. Mj. Autumn Quarter.

Hours to be arranged.
ASSISTANT PROFESSOR LYON AND DR. FISCHER.

Repeated Winter and Spring Quarters.

Prerequisite: *A knowledge of the main facts of Physiology.*

20. **Physiological Chemistry.**
Mj. or 1½ Mjs. Winter Quarter.

Lectures: Tues.–Thurs., 12:00.
Recitations: Sec. *a*, Fri., 12:00.
Sec. *b*, Wed., 2:00.

Laboratory:
Sec. *a*, Wed.–Fri., 8:30–12:00.
Sec. *b*, Mon.–Wed., 2:00–5:00.
ASSISTANT PROFESSOR MATHEWS AND ASSISTANTS.

21. **Pharmacology.** Mj. Spring Quarter.

Lectures: Mon., Tues., 11:00.
Recitations: Sec. *a*, Wed., 11:00.
Sec. *b*, Thurs., 11:00.

Laboratory:
Sec. *a*, Mon.–Wed., 8:30–10:30.
Sec. *b*, Thurs., 8:30–11:00, Fri., 8:30–12:00
ASSISTANT PROFESSOR MATHEWS AND DR. —————.

### GRADUATE COURSES

31. **The Physiological Effects of Ions.**
Mj. Autumn Quarter.

Lecture: Thurs., 12:00.
Laboratory: Wed.–Fri., 2:00–5:00.
PROFESSOR LOEB.

32. **Physiology of Space Sensations.**
Mj. Winter Quarter.

Lecture: Thurs., 11:00.
Laboratory: Wed.–Fri., 2:00–5:00.
PROFESSOR LOEB.

33. **Physiological Morphology, and Theory of Tropisms.** Mj. Spring Quarter.

Lecture: Thurs., 12:00.
Laboratory: Wed.–Thurs., 2:00–5:00.
PROFESSOR LOEB.

41. **Seminar.**—Throughout the year.
Thursday, 4:00–5:00.
PROFESSOR LOEB.

42. **Research Work in Physiology.**
DMj. Throughout the year.
PROFESSOR LOEB.

Graduate course in Research and graduate courses in Physiological Chemistry and Pharmacology will be announced later.

## III. DEPARTMENT OF CHEMISTRY, PHARMACY, AND TOXICOLOGY *†

(INCLUDING MATERIA MEDICA; AND COURSES IN DEPARTMENT XX, CHEMISTRY, AT THE UNIVERSITY OF CHICAGO)

### OFFICERS OF INSTRUCTION AT RUSH MEDICAL COLLEGE

Professor WALTER S. HAINES
Assistant Professors JEROME H. SALISBURY, JACOB ALLEN PATTON
Associate RALPH W. WEBSTER
Fellow, HERBERT G. VAUGHAN

### OFFICERS OF INSTRUCTION AT THE UNIVERSITY OF CHICAGO

JOHN ULRIC NEF, Ph.D., *Professor and Head of the Department of Chemistry*
ALEXANDER SMITH, Ph.D., *Associate Professor of General Chemistry*
FELIX LENGFELD, Ph.D., *Assistant Professor of Inorganic Chemistry*
JULIUS STIEGLITZ, Ph.D., *Assistant Professor of Chemistry*
JOHN C. HESSLER, Ph.D., *Instructor in Chemistry*
LAUDER W. JONES, Ph.D., *Associate in Chemistry*
HARRY CHALMERS BIDDLE, Ph.D., *Assistant in General Chemistry*

JACOBUS HENRICUS VAN 'T HOFF, Ph.D., *Professor Ordinarius Honorarius in the University of Berlin.* (Summer Quarter, 1901)
WALTER STANLEY HAINES, A.M., M.D., *Professor of Chemistry, Pharmacy, and Toxicology, Rush Medical College; Professorial Lecturer on Toxicology*
HERBERT NEWBY McCOY, Ph.D., *Associate Professor of Chemistry, University of Utah,* Salt Lake City, Utah. (Summer Quarter, 1901)

### FELLOWS

1901-1902

WILLIAM McAFEE BRUCE, A.M.
FRANCIS WILLIAM BUSHONG, A.M.
JOHN WILKES SHEPHERD, A.M.
WALLACE APPLETON BEATTY, S.M., *Loewenthal Fellow*

The courses in Elementary Chemistry and Toxicology are given during the Freshman and Sophomore years at the University of Chicago; the courses in advanced Toxicology, in Medical Pharmacy and Materia Medica, in Sanitary Chemistry, in Clinical Chemistry, and in Prescription Writing, are given at Rush Medical College during the Junior and Senior Years.

Any recent standard text-books may be used for the courses in this department.

### INSTRUCTION AT THE UNIVERSITY

### INTRODUCTORY

In this department are offered (1) courses which are suited for providing the preparation in the science of Chemistry that is indispensable to the study and practice of Medicine; (2) courses which afford the student an opportunity for acquiring a more thorough and complete preparation for following intelligently the rapid advances in modern physiology and other medical subjects; and (3) courses which are indispensable for those who intend to assist in this advance by devoting themselves in part or exclusively to research in medical subjects, after completing their medical course.

---

* For courses in *Physiological Chemistry* see the Department of Physiology.

† The courses in Physics recommended to college students preparing to study medicine (see p. 30) are the following courses offered in the Department of Physics:

1. **General Physics.**—A course in General Physics in which are presented mainly from the experimental standpoint the most important principles involved in the study of mechanics, properties of liquids and gases, heat and sound. 10 hrs. a week. Mj. Each quarter.
Summer Quarter; 8:30-10:30. Mr. Hobbs.
11:00- 1:00. Dr. Gale.
Autumn Quarter; 8:30-10:30; 11:00-1:00.
Dr. Millikan, Mr. Hobbs, and Dr. Gale.
Winter and Spring Quarters; 8:30-10:30.
Mr. Hobbs and Dr. Gale.
Prerequisite: *Plane Trigonometry and Elementary (Entrance) Physics.*

2. **General Physics.**—A continuation of Course 1 covering the subjects of electricity and light.
10 hrs. a week. Mj. Summer Quarter; 2:00-4:00.
Dr. Millikan and Mr. Hobbs.
Repeated. Mj. Winter Quarter; 2:00-4:00.
Dr. Millikan and Mr. Hobbs.
Prerequisite: *General Physics 1.*

3. **General Physics.**—A course of lectures and demonstrations intended to complete a year's work in Junior College Physics. The most important principles of Physics not treated in Courses 1 and 2 are presented from the lecture standpoint. 5 hrs. a week. Mj. Spring Quarter; 9:30.
Drs. Mann and Millikan,
with occasional lectures by Professor Michelson.
Prerequisite: *General Physics 1 and 2.*

More advanced courses are described in the departmental announcements of the University.

### REQUIREMENTS AND ELECTIVES IN CHEMISTRY

Medical students who receive entrance credit for High School Chemistry‡ are required to take General Chemistry, 1B and 2B, or the two Double Minor courses, 1A and 2A (Summer Quarter).

All medical students are required to take the lectures on Organic Chemistry, 4 (½ Mj.). Organic Chemistry, 17 (Mj.), Summer Quarter, or 14 and 15 (2 Mjs.) may be substituted for Course 4.

Students who are preparing for the study of medicine, and who are also candidates for a bachelor's degree in the University of Chicago, are strongly recommended to take at least three Majors more of chemistry, viz., Qualitative Analysis, 6 and 7, and the laboratory work in Organic Chemistry, 5 or 18.

Candidates for a bachelor's degree who expect to do research work in physiology or allied medical subjects may with advantage elect further courses from the following: Quantitative Analysis, 9; Organic Chemistry, 14, 15, and 16; Theoretical Chemistry, 31 and 32; or Advanced General Chemistry, 23.

### COURSES OF INSTRUCTION

Summer Quarter, 1901 — Spring Quarter, 1902

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=double course for twelve weeks.

PROFESSOR VAN 'T HOFF, of the University of Berlin, will offer a limited number of lectures on Physical Chemistry during the Summer Quarter.

#### PRIMARILY FOR THE JUNIOR COLLEGES

1, 2, 3. **General Inorganic Chemistry.**—*Elementary Course.*
Class room 3 hrs. a week, 12:00.
Laboratory 6 hrs. a week.
3Mjs. Autumn and Winter Quarters.
ASSOCIATE PROFESSOR SMITH.
Spring Quarter.
ASSISTANT PROFESSOR LENGFELD.

This is a continuous course through three quarters. The lectures and class-room work of 1, 2, and 3 may be taken by Graduate Students without the laboratory work or laboratory fee.

1A, 2A (formerly 4). **General Inorganic Chemistry.**—*Elementary Course.* 2 DMs. Summer Quarter.
Lectures 6 hrs. a week; 10:30.
Laboratory work 12 hrs. a week; 2:00–5:00.
ASSISTANT PROFESSOR LENGFELD.

The lectures and class-room work of 1A and 2A may be taken by Graduate Students without the laboratory work or laboratory fee.

Students offering entrance chemistry do more advanced laboratory work than those not offering it.

Courses 1 and 1A must be preceded by Preparatory (entrance) Physics or its equivalent, including some laboratory work.

1B, 2B. **General Inorganic Chemistry.**—*Advanced Course.*—2Mjs. Autumn and Winter Quarters.
Class room 3 hrs. a week, 8:30.
Laboratory 6 hrs. a week.
ASSISTANT PROFESSOR LENGFELD.

Prerequisite: *Entrance Chemistry and Physics, 1 unit each.*

This is a special course designed to form a sequel to high-school chemistry. The lecture, laboratory, and recitation work are all distinct from that of Courses 1 and 2. Whenever the preparation justifies it, qualitative analysis (Course 6) may be substituted for 2B.

4, 5. **Organic Chemistry.**—*Elementary Course.*
Lectures, with experiments, 3 hrs. a week, recitation, 1 hr. a week, 8:30. ½Mj. (Course 4),
Laboratory work 6 hrs. a week. ½Mj. (Course 5).
Mj. Spring Quarter.
DR. JONES.

Prerequisite: *General Chemistry.*

The lectures may be taken without laboratory work as a ½Major.

#### PRIMARILY FOR THE SENIOR COLLEGES

6, 7. **Qualitative Analysis.**—Chiefly laboratory work.
2 Mjs. or 2DMs. 8 or 16 hrs. a week laboratory.
2 hrs. a week class room. Lectures: 2:00.
Summer Quarter.
ASSISTANT PROFESSOR STIEGLITZ
AND DR. HESSLER.

---

‡ Medical students who enter without receiving credit for High School Chemistry are required to take General Chemistry, Courses 1 and 2, or 1A, 2A (2 Mjs., Summer Quarter), the lectures on Organic Chemistry, 4 (Minor), and two additional Majors, which may be selected from the courses in General Chemistry, Qualitative Analysis, or Organic Chemistry.

Autumn, Winter, and Spring Quarters.
ASSISTANT PROFESSOR STIEGLITZ
AND DR. JONES.

Prerequisite: *General Chemistry.*

Courses 6, 7, form a continuous course, which may be begun in any quarter.

9. **Quantitative Analysis.**—Chiefly laboratory work in volumetric and gravimetric analysis.
Mj or DM. 10 or 20 hrs. a week.
Summer Quarter.
ASSISTANT PROFESSOR STIEGLITZ
AND DR. MCCOY.
Autumn, Winter, and Spring Quarters.
ASSISTANT PROFESSOR STIEGLITZ.
(DR. JONES assisting in the Laboratory.)

Prerequisite: *Qualitative Analysis.*

14, 15, 16. **Organic Chemistry.**—The compounds of carbon, including the fatty and the aromatic series. Lectures.
2½Mjs. Autumn and Winter Quarters, and First Term of Spring Quarter; 12:00.
PROFESSOR NEF.

Prerequisite: *General Chemistry and Qualitative Analysis.*

17. **General Organic Chemistry.**—Fatty and aromatic series.
Lectures, 5 hrs. a week.
Mj. Summer Quarter; 8:30.
DR. JONES.

Prerequisite: *As in Course 14.*

18. **Elementary Organic Preparations.**—Laboratory work; 10 hrs. a week. This course is arranged to accompany the lectures of Course 17. It may be taken without the lectures.
Mj. Summer Quarter.
DR. JONES.

Prerequisite: *As in Course 17.*

19. **Toxicology.**—First Term, Autumn Quarter, four lectures and recitations a week.
Tues.–Fri., 11:00.
Second Term, one lecture a week. Tues., 11:00.
PROFESSOR HAINES AND DR. VAUGHAN.

23. **Advanced General Chemistry.**—Causes of and conditions for chemical action. 2 hrs. a week.
½Mj. Autumn Quarter; 8:30.
ASSOCIATE PROFESSOR SMITH.

Prerequisite: *College Physics, General Chemistry, and Qualitative Analysis.*

31, 32. **Theoretical Chemistry.**—With special reference to physical methods. 2 hrs. a week.
2Ms. Winter and Spring Quarters; 8:30.
ASSISTANT PROFESSOR LENGFELD.

Prerequisite: *College Physics and General Chemistry.*

34. **Physico-Chemical Methods.**—Determination of specific gravity, molecular weights, etc.
Laboratory work, 5 hrs. a week for one term.
½Mj. Spring Quarter.
ASSISTANT PROFESSOR LENGFELD.

See the Departmental Announcements for other courses in Chemistry, suitable for advanced special students in medicine.

## INSTRUCTION AT RUSH MEDICAL COLLEGE

51. **Advanced Toxicology.**—A lecture, conference, and laboratory course, dealing with the physical and chemical properties of the more important poisons, their toxicological effects, and their detection.
Lectures: First Term, Sat., 11:00; Second Term, Fri., Sat., 11:00.
PROFESSOR HAINES,
Conferences: Mon., 11:00.
DR. VAUGHAN.
Laboratory: Tues.–Thurs., 10:00 to 12:00, Second Term.
PROFESSOR HAINES, ASSISTANT PROFESSOR
SALISBURY, AND DR. VAUGHAN.
Autumn Quarter, 1901. .8Mj.

52. **Clinical Chemistry.**—A lecture, conference, and laboratory course, dealing with the urine, gastric contents, and other animal fluids, in their relation to disease, and embracing the composition of these fluids, the chemical and microscopical detection of abnormal constituents, and the interpretation of their clinical significance.
PROFESSOR HAINES, ASSISTANT PROFESSOR
SALISBURY, AND DR. VAUGHAN.
Spring Quarter, 1902. .8Mj.

The above courses, Nos. 51 and 52, are elective for Juniors and Seniors, and, under appropriate conditions (to be determined by the Dean and the head of the department), they may be substituted for certain courses in Chemistry of the Sophomore year, by students carrying conditions in that subject.

Course 52, when taken by Juniors or Seniors, may be counted as a part of the four required majors in Medicine.

53. **Medical Pharmacy and Materia Medica.**—A lecture, conference, and laboratory course, dealing with the physical, chemical, and pharmaceutical properties of medicinal agents.

Lectures: First Term, Mon., Sat., 10:00; Second Term, Mon., 10:00.

ASSISTANT PROFESSOR PATTON.

Conferences: Fri., 10:00.

DR. VAUGHAN.

Laboratory: Tues.–Thurs., 10:00 to 12:00. First Term.

ASSISTANT PROFESSOR PATTON
AND DR. VAUGHAN.

Autumn Quarter, 1901. .8Mj.

The above course, No. 53, is elective for Juniors and Seniors, and, under appropriate conditions (to be determined by the Dean and the head of the department), may be substituted for certain courses in Materia Medica, by students carrying conditions in that subject.

54. **Principles of Prescribing.**—A lecture and conference course, occupying two hours weekly for one term, on the principles of prescription writing, during which the following topics are considered, viz.: general form and subdivisions of a complete prescription, apothecary and metric system of weights and measures, prescribing solids and liquids of all kinds, particular attention being given to the subject of incompatibles. Classes are limited to twenty-four. ASSISTANT PROFESSOR PATTON,
AND DR. VAUGHAN.

Each term throughout the year.

Summer Quarter. Tues., Thurs., 10:00. .4M

Elective for Juniors and Seniors.

---

## IV. DEPARTMENT OF THERAPEUTICS AND PREVENTIVE MEDICINE

### OFFICERS OF INSTRUCTION

INGALS PROFESSOR HENRY BAIRD FAVILL
INSTRUCTORS JAMES C. GILL, GEORGE W. HALL, GEORGE F. ZAUN
ASSOCIATES LAWRENCE RYAN, FRED D. HOLLENBECK
ASSISTANTS WILLIAM B. SPRAGUE, HUGO AD OLDENBERG

### INTRODUCTORY

The department will give to the Junior class a full course in the subjects of general therapeutics together with a discussion of all therapeutic resources and a laboratory training in manipulative methods.

The instruction will be coördinated with the instruction in special therapeutics as taught in the departments of practice, to the end that repetition and conflict as far as possible may be eliminated.

The lectures and conferences will be given in conjunction with laboratory work, for the purpose of elucidating the course as it progresses.

It is desired to emphasize the physiologic and hygienic aspects of the subject, for which reason no independent course in hygiene will be given.

In immediate sequence with the Junior work, a course on Preventive Medicine will be given the Seniors in the Autumn Quarter. In this course will be discussed the origin and extension of diseases and morbid processes in relation to avoidance.

Any recent standard text-books may be used for the courses in this department.

### COURSES OF INSTRUCTION

#### JUNIOR YEAR

**Course 1.** Therapeutics.—A lecture and conference course. Tues., Thurs., Sat., 8:00.

Winter Quarter, 1902. .6Mj.

PROFESSOR FAVILL, DRS. GILL,
HALL, ZAUN, AND RYAN.

**Course 2.** Therapeutics.—A lecture and conference course in continuation of Course 1.

Tues., Thurs, Sat., 8:00.

Spring Quarter, 1902. .6Mj.

PROFESSOR FAVILL, DRS. GILL,
HALL, ZAUN, AND RYAN.

**Course 3.** Practical Therapeutics.—A laboratory and practical course in Massage, Hydrotherapy, Aërotheraphy, and special manipulations, given to the class in sections.

Tues., Wed., Thurs., Fri., 4:00–6:00.
Autumn Quarter, 1901.
Winter and Spring Quarters, 1902. .4Mj.
Each section will be given about twenty-four hours.

**Course 4.** Prescription-Writing.—A didactic and conference course in the art of prescription-writing. Given to the class in small sections. Hours to be announced.

Autumn Quarter, 1901. Spring Quarter, 1902.
Each section twelve hours. .4M.

### SENIOR YEAR

**Course 5.** Preventive Medicine.—A lecture and conference course. Tues., Thurs., Sat., 8:00.
Autumn Quarter, 1901. .6Mj.
PROFESSOR FAVILL.

## VI. THE DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

AT THE UNIVERSITY DEPARTMENT XXVIII

### OFFICERS OF INSTRUCTION

LUDVIG HEKTOEN, M.D., *Professor of Pathology and Head of the Department of Pathology and Bacteriology*
EDWIN OAKES JORDAN, PH.D., *Associate Professor of Bacteriology*
GEORGE H. WEAVER, M.D., *Assistant Professor of Pathology*
EDWIN RAYMOND LE COUNT, M.D., *Assistant Professor of Pathology*
H. GIDEON WELLS, S.B., M.D., *Associate in Pathology*
WILLIAM BUCHANAN WHERRY, A.B., M.D., *Assistant in Bacteriology*
———————————, *Assistant in Pathology*

### FELLOWS

1901-1902

MARY HEFFERAN, A.M. (Bacteriology)
LUDWIG M. LOEB, M.D. (Pathology)

### INTRODUCTORY

The courses offered by the Department include such as cover the required work in Pathology and Bacteriology in the curriculum of medicine, as well as advanced courses arranged for those desiring a more extended knowledge of the subjects, and for those wishing to qualify themselves for research.

At the University of Chicago the Department possesses all necessary equipment for pathologic and bacteriologic work; abundant and properly lighted desk-room, with lockers, is provided. There is access to a good museum for teaching purposes, and to complete files of the important serial publications. Any recent standard text-book may be used for the courses in this department.

For each Major or Double Minor Course requiring laboratory work the laboratory fee is $2.50.

The Pathological Laboratory of Rush Medical College possesses (about one hundred Leitz, Bausch and Lomb, and Zeiss microscopes, each with three or two objectives and substage apparatus, some fourteen microtomes, and all necessary equipment for pathologic and bacteriologic work. Abundant well-lighted desk-room with shelves and lockers is provided. The laboratory has a good museum for teaching purposes and a special departmental library containing complete files of the important pathological and bacteriological journals in the English, French, and German languages. Adjacent hospitals furnish abundant material for demonstration, advanced work, and research.

Beginning with Summer Quarter, 1901, the required courses of the first two years in Pathology and Bacteriology—1½ majors in each study—will be given in the University of Chicago. The additional credit of 1 major of Pathology required of students in the third and fourth years may be obtained by selection from the courses offered at Rush Medical College, all of which are elective.

## COURSES OF INSTRUCTION

Summer Quarter, 1901 — Spring Quarter, 1902

### Freshmen and Sophomore Courses (University)

1. **General Bacteriology.**— General aspects of Bacteriology. Laboratory practice in the essentials of bacteriological technique. Non-pathogenic organizations are first studied, and afterward the pathogenic forms.

1½ Mjs. Autumn Quarter.

Lectures: Mon., Tues., 8:30.

Recitations: Sec. *a*, Wed., 2:00.
Sec. *b*, Wed., 3:00.

Laboratory: Sec. *a*, Mon., Tues., 2:00–5:00.
Sec. *b*, Wed., Fri., 8:30–10:30.

Associate Professor Jordan, Dr. Wells, Dr. Wherry, and Assistants.

1 A. **Elementary Bacteriologic Technique.** — General aspects of Bacteriology. Laboratory practice in the essentials of bacteriologic technique.

Mj. or DMj. Summer Quarter; 2:00–5:00.

Dr. Wherry.

2. **Public Hygiene.**— The application of Bacteriology to municipal hygiene. Water-supply, food-supply, sewage-disposal, etc.

Mj. Spring Quarter.

Associate Professor Jordan.

3 and 4. **General Pathology and Pathologic Histology.**— A practical laboratory course is given in general pathologic histology, supplemented by experiment, by lantern demonstrations, and by the study of fresh and museum specimens. Recitations and lectures in general pathology.

1½ or 2Mjs. Winter and Spring Quarters.

Professor Hektoen, Dr. Wells, and Assistants.

Prerequisite: *Histology and Bacteriology.*

5A, 5B, and 5C. **Advanced Bacteriology.**

Mj. Autumn, Winter, and Spring Quarters.

Lectures on immunity and infection are given in connection with 5B.

Associate Professor Jordan and Dr. Wherry.

### Graduate Courses.

10. **Research in Pathology** (University).— Open to a limited number of specially qualified students and graduates in medicine.

Mj. or DMj. Each Quarter.

Hours arranged for each student.

Professor Hektoen and Dr. Wells.

11A, 11B, 11C. **Bacteriology** (University).— Research.

Mj. or DMj. Autumn, Winter, and Spring Quarters. Associate Professor Jordan.

### Junior and Senior Courses (Rush).

12. **Pathologic Anatomy and Histology.** — A laboratory, lecture, and conference course limited to thirty students. Practical instruction is given in the methods of making post-mortem examinations and of properly recording the results. The student is required to study and describe the gross appearances of diseased organs and tissues, which he then studies microscopically. Bacteriologic and chemic methods and experiments are employed whenever indicated, and the clinical relations (pathologic physiology) of the morbid conditions are emphasized. 1:00–3:00 daily except Saturday.

Mj. Summer Quarter, 1901.

Assistant Professor Le Count.

Autumn Quarter, 1901.

Professor Hektoen and Assistant Le Count.

Winter and Spring Quarter, 1902.

Assistant Professor Le Count and Dr. Loeb.

13. **The Common Infectious Diseases.**— The Bacteriology, Pathologic Anatomy, and Histology, as well as the important literature of some of the more frequent infectious diseases.

Second Term, Autumn Quarter, 1901, and Spring Quarter, 1902. Daily, 8:00–12:00, except Saturday. DM.

Assistant Profs. Weaver and LeCount.

14. **The Histology and Microscopic Diagnosis of Tumors.**

Second Term, Summer and Winter Quarters, 1901–1902; daily, 3:00–5:00, except Saturday. M.

Assistant Prof. LeCount.

15. **Microscopic Technique.**—A course in Histologic (Normal and especially Pathologic) Technique, which will include the methods of hardening and fixation of tissues, infiltration and sectioning, the ordinary staining methods, the special selective stains and the staining of bacteria in tissues.

Autumn Quarter, 1901.

Mon., Wed., Fri., 3:00–5 00. M.

Assistant Prof. LeCount.

16 **Pathologic Chemistry.**—The Physics and Chemistry of Pathologic Processes. Instruction given by conferences, reading, preparation of papers, experiments, and laboratory research work.

Spring Quarter, 1902. Hours to be announced. M.

Dr. Wells.

17 **Advanced Laboratory Work and Research in Pathology.**—Open to a limited number of specially qualified students and graduates in medicine.

Hours arranged for each student. Credit given based on time and quality of work.

Each Quarter, 1901–1902.

Professor Hektoen and Assistant Prof. LeCount.

18 **General Pathology.**—A lecture course with demonstrations. Winter Quarter, 1901. M.

Professor Hektoen.

Hours to be announced.

---

## VII. DEPARTMENT OF MEDICINE

### OFFICERS OF INSTRUCTION

Professors FRANK BILLINGS, HENRY M. LYMAN, DANIEL R. BROWER, JOHN M. DODSON, JAMES B. HERRICK

Associate Professor ALFRED C. COTTON

Assistant Professors HAROLD N. MOYER, BERTRAM W. SIPPY, GEORGE H. WEAVER

Instructors S. R. SLAYMAKER, JOSEPH A. CAPPS, WILLIAM J. BUTLER, F. S. CHURCHILL, THOMAS R. CROWDER, JOSEPH L. MILLER

Associates CHARLES A. WADE, J. W. VANDERSLICE, JAMES A. HARVEY

Assistant THEO. WILD, Jr.

Clinical Attendants in the Dispensary, Drs. SALISBURY, HARVEY, MELOY, STEFFENSON, McCURDY, MERRILL

Fellow ALEXANDER F. STEVENSON

### EXTRA-MURAL TEACHERS

AT THE WEST SIDE HEBREW DISPENSARY

Assistant Clinical Professor (*extra-mural*) ISAAC ABT
Assistant Clinical Professor (*extra-mural*) ROSA ENGELMAN
Assistant Clinical Professor (*extra-mural*) SYDNEY KUH
Clinical Assistant (*extra-mural*) A. W. SCHRAM
Clinical Assistant (*extra-mural*) MAY MICHAEL

AT THE CHICAGO ISOLATION HOSPITAL.

Assistant Clinical Professor (*extra-mural*) HEMAN SPALDING

### COURSES OF INSTRUCTION

Junior Year

**Course 1.**—The Anatomy, Physiology, and Hygiene of Infancy. A recitation and conference course.

Mon., Wed., Fri., 9 : 00.

First Term, Summer Quarter, 1901. .6M.
First Term, Spring Quarter, 1902.

Dr. Butler.

Text-book: *The Anatomy and Physiology of Infancy and Childhood*, Catton.

**Course 2.**—The Diseases of the Alimentary Tract. A recitation and conference course.

Mon., Wed., Fri., 9 : 00.

Second Term, Summer Quarter, 1901. .6M.

Dr. Harvey.

**Course 3.**—Diseases of the Alimentary Tract. A recitation and conference course.

Mon., Wed., Fri., 9 : 00.

Autumn Quarter, 1901. .6M.

Drs. Slaymaker, Capps, Harvey, Miller, Crowder.

**Course 4.**—Diseases of the Kidney, the Blood, and Vascular System; and Infectious Diseases. A recitation and conference course.

Mon., Wed., Fri., 9 : 00.

Winter Quarter, 1902. .6Mj.

Drs. Slaymaker, Capps, Harvey, Miller, Crowder.

**Course 5.**—Diseases of the Nervous System and General Diseases. Recitation and conference course.
Mon., Wed., Fri., 9 :00.
Spring Quarter, 1902. .6Mj.
DRS. CAPPS, SLAYMAKER, HARVEY, MILLER, CROWDER.

Any recent standard text-book on the Practice of Medicine may be used for Courses 2, 3, 4, and 5.

**Course 6.**—A Clinical Course in the Central Free Dispensary.
Daily, 10 :00–12 :00.
In sections, one month for each section.
Summer and Autumn Quarters, 1901.
Winter and Spring Quarters, 1902. 1.2M.

### SENIOR YEAR

**Course 7.**—The Disorders of Nutrition in Infancy and Childhood. A lecture and clinical course.
Mon., Wed., 9 : 00. First Term only.
Fri., 10:00–12:00 throughout the Quarter.
Summer Quarter, 1901. .8M.
ASSOCIATE PROF. COTTON.

**Course 8.**—Diseases of the Alimentary Tract. A lecture and clinical course.
Wed., Fri., 9: 00 (Second Term only).
Mon., Thurs., 10:00–12:00 throughout the Quarter. Summer Quarter, 1901. 1.2M.
ASSISTANT PROF. SIPPY.

**Course 9.**—Diseases of the Liver. A lecture and clinical course.
Wed., Sat., 9:00.
Mon., Thurs., 10: 00–12: 00.
First Term, Autumn Quarter, 1901. .8M.
PROFESSOR HERRICK.

**Course 10.**—Diseases of the Spinal Cord. A lecture and clinical course.
Wed., Sat., 9:00.
Mon., Thurs., 10:00–12:00.
Second Term, Autumn Quarter, 1901. .8M.
ASSISTANT PROF. MOYER.

**Course 12.**—The Eruptive Diseases of Infancy and Childhood. A lecture and clinical course.
Tues., Thurs., 9: 00 (Second Term only).
Fri., 10:00–12:00 (throughout the Quarter).
Autumn Quarter, 1901. .8M.
PROFESSOR DODSON.

**Course 13.**—Diseases of the Intestinal Tract. A lecture and clinical course.
Wed., Sat., 9:00.
Mon., Thurs., 10:00–12:00.
First Term, Winter Quarter, 1902. .8M.
PROFESSOR BILLINGS.

**Course 14.**—Diseases of the Brain. A lecture and clinical course.
Wed., Sat., 9:00, Mon., 10:00–12:00.
Second Term, Winter Quarter, 1902. .6M.
PROFESSOR BROWER.

**Course 15.**—Diseases of the Stomach. A lecture and clinical course.
Mon., 9:00, Thurs., 10:00–12:00.
Second Term, Winter Quarter, 1902. .4M.

**Course 16.**—Diseases of the Respiratory Tract of Infancy and Childhood. A lecture and clinical course.
Tues., Thurs., 9:00 (First Term only).
Fri., 10:00–12:00 (throughout the Quarter).
Winter Quarter, 1902. .8M.
ASSOCIATE PROF. COTTON.

**Course 17.**—Diseases of the Kidney and Vascular System. A lecture and clinical course.
Wed., Sat., 9:00, Mon., Thurs., 10:00–12:00.
First Term, Spring Quarter, 1902. .8M.
ASSISTANT PROF. SIPPY.

**Course 18.**—Mental and Nervous Diseases. A lecture and clinical course.
Wed., Sat., 9:00.
Second Term, Spring Quarter, 1902. .4M.
PROFESSOR BROWER.

**Course 19.**—The Nervous Diseases of Infancy and Childhood. A clinical and lecture course.
Tues., Thurs., 9:00 (First Term only).
Fri., 10:00–12:00 (throughout the Quarter).
Spring Quarter, 1902. .8M.
PROFESSOR DODSON.

**Course 20.**—Diseases of the Muscles and Peripheral Nerves. A lecture and clinical course.
Mon., 9:00, Thurs., 10:00–12:00.
Second Term, Spring Quarter, 1902. .4M.
ASSISTANT PROF. MOYER.

**Course 21.**—General Medicine. A clinical course at Cook County Hospital.
Tues., Sat., 10:00–12:00 throughout the year.
.4Mj.
PROFESSORS BILLINGS AND HERRICK, AND ASSISTANT PROF. SIPPY.

**Course 22.**—Mental and Nervous Diseases. A clinical course at Cook County Hospital.
Fri., 4:00–6:00 throughout the year.
Each Quarter. .2Mj.
PROFESSOR BROWER.

**Course 23.**—Cook County Hospital Ward Clinics, in Sections. (*Elective.*) Students in sections of from six to eight are taken into the medical wards of the hospital, and are required to examine cases and to discuss them before the class.

Hours to be announced later. .4M.

PROFESSOR DODSON,
ASSISTANT PROF. SIPPY, AND OTHERS.

**Course 24.**—Laboratory Diagnosis. A laboratory course in the chemical, microscopical, and bacteriological examination of blood, urine, sputum, gastric contents, feces, secretions, exudates, etc., and their pathologic and clinical significance, especial attention being given to their bearing upon diagnosis. Each class limited to 24 men. Repeated each term of six weeks throughout the year.

Tues., Wed., Fri., Sat., 10:00–12:00.
Each Term throughout the year. .4M.

ASSISTANT PROF. WEAVER,
DRS. CAPPS, CROWDER, MILLER, STEVENSON.

**Course 24*a*.**—A Clinical and Laboratory Course in Diseases of the Stomach. About three-fourths of the course will be devoted to the practical examination of patients in the Central Free Dispensary, and the remainder to Laboratory investigation.

Tues., Fri., 10:00–12:00.
First Term, Summer Quarter, 1901. .4M.

ASSISTANT PROF. SALISBURY.

**Course 25.**—Seminar in Classics of Medical Literature.

In this course classic contributions to medical literature will be studied by means of reading, essay-writing, conference, and discussion. The number of students taking this course will be limited to twelve.

For 1902 the subjects taken up will be:

1. Laennec on Diseases of the Chest, selected chapters.
2. Addison on Diseases of the Suprarenal Capsule.
3. Report of the London Clinical Society on Myxoedema.
4. Koch on the Bacillus of Tuberculosis.
5. Selections from Trousseau's Clinical Medicine.
6. Gerhard on Typhoid Fever.

Copies of these works in English will be found in the Rush Medical College Library.

Spring Quarter. Hours to be announced. .4M.

PROFESSOR HERRICK.

**Course 26.**—Medical Tuberculosis. A lecture and clinical course. The class will be taken into hospital wards.

Tues., Thurs., 9:00.
First Term, Autumn Quarter, 1900. .4M.

EMERITUS PROF. BRIDGE.

**Course 27*a*** (*extra-mural*).—A course in Clinical Paediatrics at the West Side Hebrew Dispensary.

Mon., Thurs., 4:00–6:00 (throughout the year).
Each section one Term. .4M.

ASST. CLINICAL PROF. ISAAC ABT, DR. MAY MICHAEL.

**Course 27*b*** (*extra-mural*).—Course in Clinical Paediatrics at West Side Hebrew Dispensary.

Wed., Sat., 2:00–4:00 (throughout the year).
Each section one Term. .4M.

ASST. CLINICAL PROF. ROSA ENGELMAN.

**Course 27*c*** (*extra-mural*),—Course in Clinical Neurology, West Side Hebrew Dispensary.

Wed., Sat., 4:00–6:00 (throughout the year).
Each section one Term. .4M.

ASST. CLINICAL PROF. SYDNEY KUH.

**Course 27*d*** (*extra-mural*).—A Clinical Course in Variola, at the Chicago Isolation Hospital, at intervals as material is afforded.

Classes limited to ten each. .2M.

ASST. CLINICAL PROF. HEMAN SPALDING.

**Course 27*e*** (*extra-mural*).—A Course in Clinical Medicine at St. Luke's Hospital, limited to small groups

Thurs., 4:00–6:00 (throughout the year). .2Mj.

PROFESSOR HENRY B. FAVILL.

**Course 28.**—A Course in Clinical Medicine at Cook County Hospital.

Thurs., 7:00–8:00 (throughout the year).

ASSISTANT PROF. SIPPY.

Other Clinical Courses will be offered in some of the outlying hospitals, by members of the several attending staffs, for which credit will be allowed. Detailed statement of these courses will be announced later.

## VIII. DEPARTMENT OF SURGERY

### OFFICERS OF INSTRUCTION

Professor NICHOLAS SENN
Professor CHRISTIAN FENGER
Professor ARTHUR DEAN BEVAN
Associate Professor WM. T. BELFIELD
Associate Professor in Dental Surgery TRUMAN W. BROPHY
Associate Clinical Professor D. W. GRAHAM
Assistant Professors ALBERT I. BOUFFLEUR, FREDERIC S. COOLIDGE, EMANUEL J. SENN
Instructors CHARLES A. PARKER, FRANK W. JAY, ERNEST J. MELLISH
Associates ALBERT B. KEYES, KARL DOEPFNER, EMANUEL J. FRIEND
Assistants DRS. DONLON, RYERSON

AT ST. LUKE'S HOSPITAL

Assistant Clinical Professor (*extra-mural*) LEWIS L. MacARTHUR

AT THE COOK COUNTY HOSPITAL

Assistant Clinical Professor (*extra-mural*) A. E. HALSTED

AT THE WEST SIDE HEBREW DISPENSARY

Assistant Clinical Professor (*extra-mural*) EMANUEL FRIEND

### COURSES OF INSTRUCTION

#### Junior Year

*1. **Principles.**—Recitation and conference course.
Mon., Wed., Fri., 8 : 00.
Summer and Autumn Quarters, 1901. .6Mj.
Drs. Doepfner, Donlon, and Ryerson.

*2. **Principles and Practice of Surgery.**—A recitation and conference course.
Mon., Wed., Fri., 8 : 00.
Winter Quarter, 1902. .6Mj.
Drs. Keyes, Jay, Mellish, Friend, Doepfner, Donlon, Ryerson, Thompson.

*3. **Practice of Surgery.**—Recitation and conference course
Mon., Wed., Fri., 8 : 00.
Spring Quarter, 1902. .6Mj.
Drs. Keyes, Jay, Mellish, Friend.

3*a*. **Surgical Anatomy.**—Course with demonstrations and drawings of the extremities.
Tues., Sat., 11:00.
Autumn Quarter, 1901. .4 Mj.
Professor Bevan and Assistants.

3*b*. **Surgical Anatomy.**—Course with demonstrations and drawings of the abdomen and pelvis.
Tues., Sat., 11:00.
Winter Quarter, 1902. .4 Mj.
Professor Bevan and Assistants.

3*c*. **Surgical Anatomy.**—Course with demonstrations and drawings of the head, neck, and thorax.
Tues., Sat., 11:00.
Spring Quarter, 1902. .4 Mj.
Professor Bevan and Assistants.

4. **Demonstration Course in Bandaging.**—A practical course in bandaging.
Mon., Tues., Wed., 3 : 00–5 : 00.
Six weeks for each section; throughout each Quarter. .4M.
Dr. Parker.

5. **Clinical Surgery. Central Free Dispensary.**
Daily, 1 : 00–3 : 00.
Throughout the year; one month for each section. M.
Assistant Professor Coolidge, Drs. Jay and Doane.

#### Senior Year

6. **Lectures on Surgery.**
Mon., Wed., 8 : 00.
Autumn Quarter, 1901. .4Mj.
Associate Prof. Bevan.

7. **Lectures on Surgery.**
Mon., Wed., 8 : 00.
Winter Quarter, 1902. .4Mj.
Associate Prof. Bevan.

---

*The text-books required for Courses 1, 2, and 3, are Senn's *Principles of Surgery*, Senn's *Tumors*, Senn's *Emergency and Minor Surgery*, and Von Esmarch's and Kowalzig's *Operative Surgery*, edited by Senn.

8. **Lectures on Surgery.**
Mon., Wed., 8:00.
Spring Quarter, 1902. .4Mj.
Associate Professor Bevan.

9. **A Lecture Course on Surgery, General and Orthopedic.**
Mon., Wed., 8:00. Summer Quarter, 1901.
Spring Quarter, 1902. .4Mj.
Assistant Profs. Coolidge, and E. J. Senn.

10. **A Practical Course in Operative Surgery** on the cadaver and in surgical appliances, given to the class in sections.
Tues., Thurs., Fri., 4:00–6:00. .6M.
Repeated each Term of the Autumn and Winter Quarters and the First Term of the Spring Quarter.
Operative Surgery.
Assistant Prof. Bouffleur.
Surgical Appliances and Bandaging.
Assistant Prof. Coolidge.

11. **College Clinics.**
Tues., Thurs., 2:00–4:00. .8Mj.
Professor Senn.
Wed., 4:00–6:00; Sat. 2:00–4:00. Throughout the year. Professor Fenger.

12. **Presbyterian Hospital Clinic.**
Mon., Wed., Fri., 10:00–12:00 a. m. Throughout the year. .4M.
Associate Professor Bevan.
Tues., Thurs., Sat., 10:12:00 a. m.
Associate Clinical Prof. Graham.

13. **Clinic at Cook County Hospital.**
Thurs., 8:00–10:00 p. m. Throughout the year.
Each Quarter. .2Mj.
Assistant Prof. Bouffleur.

14. **Ward Clinics in the County Hospital.**
Tues., Fri., 9:00. Throughout the year.
Given to the class in sections of from 5 to 8 students. Each section will be given about 12 hours' work. .2M.
Drs. Moorehead, Donlon, Halsted.

15. **Dental Surgery.**—A lecture by Associate Prof. Brophy.
Mon., Wed., Thurs., 8:00.
First Term, Winter Quarter, 1902. .6M.

EXTRA-MURAL COURSES.

**Course 16.**—A course in clinical surgery at St. Luke's Hospital, classes limited to 10.
Thurs., 2:00–4:00.
Each course extends over one term (6 weeks). .2M.
Assistant Clinical Prof. Lewis L. MacArthur.

**Course 17.**—A course in clinical surgery at the West Side Hebrew Dispensary, classes limited to 8 students.
Wed., Sat., 4:00–6:00.
Each course extends over one term. .4M.
Assistant Clinical Professor Emanuel Friend.

**Course 18.**—A course in clinical surgery at the Cook County Hospital, classes limited to 12 students. Throughout the year. .4M.
Assistant Clinical Professor A. E. Halsted.

---

## IX. DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

Professor J. CLARENCE WEBSTER
Assistant Professor HENRY B. STEHMAN
Assistant Clinical Professors EFFA V. DAVIS, CHAS. E. PADDOCK
Instructors: RUDOLPH W. HOLMES, HENRY F. LEWIS
Associates: FREDERICK A. JEFFERSON, PALMER FINDLEY
Assistant FRANK D. PIERCE
Attendants in Dispensary: EFFA V. DAVIS, JULIA A. MERRILL, ELIZABETH HAY, PALMER FINDLEY, HENRY F. LEWIS, FRANK PIERCE

AT THE COOK COUNTY HOSPITAL
Assistant Clinical Professor (*extra-mural*) E. L. MOOREHEAD

### INTRODUCTORY

The subject of Obstetrics is taught by lecture and conference course in the Junior Year, a practical course in obstetric manipulations upon the manikin, and by clinical conferences in which the class, in small sections, examine patients in various institutions. During the Senior Year students are assigned to cases of labor in these institutions and at the homes of patients, being allowed to conduct the same under the direction of the assistant who accompanies them.

Gynecology is taught by lectures (didactic and clinical), microscopic and naked eye demonstrations, conference, and "touch" courses. Clinical material is furnished by the Presbyterian Hospital and the Central Free Dispensary.

Any recent standard text-book may be used for the courses in this department.

## COURSES OF INSTRUCTION

### OBSTETRICS

#### JUNIOR YEAR

**Course 1.**—A lecture course on the Anatomy and Physiology of the female organs of generation, on Pregnancy and Normal Labor.

Tues, Thurs., Sat., 9:00.

Autumn Quarter, 1901. .6Mj.

PROFESSOR WEBSTER AND DR. LEWIS.

**Course 2.**—A lecture course on the Pathology of Pregnancy, Abnormal Labor, and Obstetrical Operations.

Tues., Sat., 9:00; Winter Quarter, 1902. .4Mj.

PROFESSOR WEBSTER.

**Course 3.**—A conference course in Obstetrics. The text-book used will be any recent standard work.

Tues., Sat., 9:00; Summer Quarter, 1901, ASSISTANT CLIN. PROF. PADDOCK; Spring Quarter, 1902, DRS. JEFFERSON, LEWIS, PIERCE. .4Mj.

#### SENIOR AND JUNIOR YEARS

**Course 4.**—A course in practical Obstetrics given to the class in sections. .6M.

Mon., Wed., Fri., 1:00–3:00 and 4:00–6:00.

Each course extends throughout one term.

Summer, Winter, and Spring Quarters, 1901; 1902. DRS. HOLMES, LEWIS, PIERCE.

#### SENIOR YEAR

**Course 5.**—Clinical Obstetrics in the Maternity Department of the Presbyterian Hospital, Charity Hospital, Chicago Maternity, and Central Free Dispensary, under the direction of PROFESSOR WEBSTER, ASSISTANT PROFESSORS DAVIS, PADDOCK, DR. HAY, DR. MERRILL.

Throughout the year. .4M.

**Course 6.**—Obstetrical practice, attendance upon cases of confinement in various hospitals, and at the homes of the patients. Each student will be summoned to cases at the time of delivery, and will attend the patients during and after delivery, under supervision.

Clinical records must be kept by students and certificates obtained.

Throughout the year. .4M.

### GYNECOLOGY

**Course 7.**—A lecture course in Gynecology.

Mon., Fri., 9:00 A.M.; Autumn Quarter.

PROFESSOR WEBSTER.

**Course 8.**—Clinical Gynecology. A college clinic and conference by PROFESSOR WEBSTER.

Wed., 10:00–12:00 each Quarter. .2Mj.

**Course 9.**—A conference course in Practical Gynecology.

Summer and Winter Quarters. .4M.

DRS. FINDLEY AND PIERCE.

**Course 10.**—Dispensary clinics. A clinical demonstration and "touch" course in the Dispensary, given in sections.

Daily 1:00–3:00 each Quarter throughout the year. .4M.

Each section will work two hours daily for two weeks.

DRS. FINDLEY, LEWIS, PIERCE.

**Course 11.**—A Microscopical course illustrating the histology and pathology of the female generative organs, both in the pregnant and non-pregnant state.

Hours to be subsequently assigned.

Autumn, Winter and Spring Quarters. .4M.

DR. FINDLEY.

## X. DEPARTMENT OF DISEASES OF THE CHEST, THROAT, AND NOSE

### OFFICERS OF INSTRUCTION

Professor E. FLETCHER INGALS
Associate Professor JOHN EDWIN RHODES
Assistant Professor CHARLES J. WHALEN
Instructors GEORGE W. HALL, OTTO T. FREER
Associates J. F. DOLAMORE, GEORGE A. TORRISON, GLENN M. HAMMON, MORLEY D. BATES
Assistants J. E. RAYCROFT, N. P. COLWELL
Clinical Assistants HERMAN C. HILL, JOHN L. JACQUE, C. S. BRANNAN

AT THE WEST SIDE HEBREW DISPENSARY

GEORGE MORGENTHAU, Assistant Clinical Professor (*extra-mural*)
LOUIS E. GORDON, Clinical Assistant (*extra-mural*)

AT THE COOK COUNTY HOSPITAL

ARTHUR E. PRICE, Clinical Associate (*extra-mural*)

### INTRODUCTORY

The work of this department is given to members of the Junior and Senior classes, and includes lecture and recitation courses upon the diseases of the chest, throat, and nose; and clinical courses in the Amphitheater and in the Dispensary. A large part of the bedside instruction given in the Cook County and Presbyterian hospitals is devoted to diseases of the chest, and it is expected that facilities for this work will be much increased the coming year. The abundant material available enables the students to observe repeatedly, and examine individually, patients illustrating well-nigh every phase of disease affecting the chest and air-passages, and to see performed the principal laryngological operations. Recitation courses enforce thorough drill in the principles and practice involved. Besides these there are practical courses in physical diagnosis and in laryngology, and a special course in intubation, in which by personal experience the students become familiar with physical signs and with the methods of examination and the use of instruments.

### COURSES OF INSTRUCTION

#### Junior Year

1. **Diseases of the Chest.**—A lecture and recitation course on physical diagnosis and some of the principal diseases of the chest.
Tues., Thurs., Sat., 8:00.
Autumn Quarter, 1901. .6Mj.
Associate Professor Rhodes, Drs. Hall, Dolamore, Torrison, Hammon, Bates.
Spring Quarter 1902; Tues., Thurs., Sat., 8:00.
Associate Prof. Rhodes, Drs. Dolamore, Torrison, Hammon, Bates, Raycroft.

2. **Clinical Courses in Central Free Dispensary.**
Daily from 1:00–3:00 throughout the year. Each section will spend two weeks in this department. .4M.
Drs. Torrison, Freer, Dolamore.

3. **Practical Courses in Physical Diagnosis, Theoretical and Practical.**
Daily from 2:00–4:00 throughout the year.
Summer and Spring Quarters.
Dr. Brannan.
Autumn and Winter Quarters.
Assistant Prof. Whalen, Dr. Raycroft.
Also a preliminary course in Laryngoscopy.
Summer, Autumn, Winter, and Spring Quarters. 1:00–3:00,
Drs. Torrison, Hammon.
These courses occupy 24 hours and constitute .4M.

#### Senior Year

4. **Diseases of the Chest, Throat, and Nose.**—A Didactic course. A continuation of Course 1 in

diseases of the chest together with some of the principal diseases of the throat and nose.

Summer Quarter, 1901, Tues., Thurs., Sat., 8:00.
Dr. Freer.

Winter Quarter, 1902, Tues., Thurs., Sat., 8:00.
.6Mj.
Professor Ingals,
Associate Prof. Rhodes.

5. **College Clinic in Diseases of Chest, Throat, and Nose.**

Each Quarter. Wed. 2:00–4:00. .2Mj.

Summer Quarter.
Dr. Freer.

Autumn and Winter Quarters.
Professor Ingals.

Spring Quarter.
Associate Prof. Rhodes.

6. **Diseases of the Chest.**—A hospital clinical course. .2Mj.

Wed., 8:00–9:30, throughout the year, classes limited to small groups. Each group one term.

Summer Quarter, Dr. Price.
Autumn Quarter, Prof. Ingals.
Winter Quarter, Assistant Prof. Robison.
Spring Quarter, Dr. Dolamore.

7. **Diseases of the Chest, Throat, and Nose.**—A recitation course, supplementing Courses 4 and 5.
Drs. Raycroft, Bates.

Summer and Winter Quarters. Mon., 9:00.
.2Mj.
Drs. Raycroft and Bates.

8. **Laryngology.**—A practical course in the Dispensary.

Summer Quarter.
Drs. Torrison, Hammon, Jacque.

Autumn Quarter.
Drs. Torrison, Freer, Dolamore.

Winter Quarter.
Drs. Freer, Raycroft, Jacque.

Spring Quarter.
Drs. Torrison, Freer, Hammon.

Daily, 1:00–3:00. Each section 2 weeks. .2M.

9. **Physical Diagnosis.**— Bedside instruction in small classes.
Assistant Prof. Whalen,
Drs. Dolamore, Hall, Price.

Daily, 2:00–4:00. Each section 2 weeks. .2M.

10. **Intubation.**—A practical course.

Autumn and Winter Quarters. Daily, 1:00–3:00. .2M.
Assistant Prof. Whalen,
Dr. Torrison.

11. **Seminar.**—Selected subjects in Diseases of the Chest, Throat, and Nose.

Summer, Autumn, Winter, and Spring Quarters.

Prof. Ingals, and Associate Prof. Rhodes

This course will be offered only to those who have completed their Junior work in this department with an *excellent* grade.

It will consist of twenty elective clinical or didactic lectures, upon each of which the student shall present an abstract of from 300 to 500 words; also a course of reading on subjects to be assigned, and thesis upon the same.

The credit according to the quality of the work done will be .1 to 1Mj.

12. A clinical course at the West Side Hebrew Dispensary, in the Diseases of the Throat, Nose, and Ear, classes limited to eight students. Each course covers one term (six weeks).

Mon., Thurs., 2:00–4:00, throughout the year.
.4M.
Assistant Clinical Professor
George Morgenthau,
Dr. L. E. Gordon.

## XI. DEPARTMENT OF OPHTHALMOLOGY AND OTOLOGY

### OFFICERS OF INSTRUCTION

Professor FERDINAND C. HOTZ
Assistant Professors CASSIUS D. WESTCOTT, WILLIAM H. WILDER
Instructor, E. T. DICKERMAN, ELMER A. LAWBAUGH
Clinical Associate, ROBERT A. MacARTHUR
Assistants, CASSIUS C. ROGERS, L. E. SCHWARZ, GEORGE E. SHAMBAUGH, E. V. L. BROWN
At the West Side Hebrew Dispensary Assistant Clinical Professor (*extra-mural*), ALBERT B. HALE
Clinical Assistant (*extra-mural*), B. I. STRAUSS

### COURSES OF INSTRUCTION

#### Senior Year

1. **A Recitation Course.**—In Diseases of the Eye and Ear, by Assistant Professors Wilder and Westcott, Drs. Dickerman, Lawbaugh, Shambaugh, Rogers, each quarter. In this course the student will acquire a theoretical knowledge of the nature and treatment of the diseases of the eye and ear. These recitations will be made comprehensive by the aid of illustrations of the various diseases and the exhibition of pathological specimens. The text-books used are *Swanzy* on the Eye and *Barr* on the Ear. .6Mj.

   8:00–9:00 a.m., Mon., Wed., Fri.

2. **Clinical Lecture Course.**—By Professor Hotz and Assistant Professor Westcott, every Friday from 2:00–4:00, throughout the year. Selected cases, showing the various stages of principal Diseases of the Eye and Ear, will be exhibited, their diagnostic symptoms thoroughly demonstrated, and their treatment carefully discussed. There will also be an opportunity of witnessing all the operations upon the Eye and Ear. Each quarter's work constitutes. .2Mj.

3. **Course in Ophthalmoscopy.**—By Drs. Lawbaugh, MacArthur, Schwarz, Brown, Mon., Fr., 3:00–5:00. Throughout each quarter; these courses will be offered each quarter. The student is taught the use of the ophthalmoscope for the examination of the interior of the eyeball and for retinoscopy. He is furnished artificial eyes to practice on and then allowed under the personal supervision of the instructor to examine normal and pathologic eye grounds of patients. Each student must provide himself with an ophthalmoscope. These courses are given to sections, the number in each section being limited to ten students. .4M.

3A. **A Course in Clinical Ophthalmoscopy.**—At the West Side Hebrew Dispensary (*extra-mural*), with practical demonstration of the normal fundus. Each class limited to ten students. Monday, 2:00–4:00 throughout each quarter. .2Mj.

   Assistant Clinical Prof. Albert B. Hale.

4. **Clinical Courses on Diseases of the Eye.**—In the Central Free Dispensary, by Drs. MacArthur, Lawbaugh, Schwarz; every day from 1:00–3:00 throughout the year, to section of ten students. Each section to attend two weeks. .2M.

5. **Clinical Course on Diseases of the Ear.**—In the Central Free Dispensary, by Drs. Dickerman, Rogers, Shambaugh, daily from 1:00–3:00 throughout the year, to sections of ten students. The attendance upon these Dispensary Clinics is particularly valuable because it affords the student the opportunity of personally examining patients and watching the progress of cases from day to day. .2M.

6. **Clinical Course in Ophthalmic Surgery.**—At the Eye and Ear Infirmary, by Assistant Prof. Wilder, every Saturday at 2:00. .2Mj.

   Autumn Quarter, 1901; Winter and Spring Quarters, 1902.

6A. **A Clinical Course in Ophthalmology.**—At the West Side Hebrew Dispensary (*extra-mural*). Each course extends through one term (six weeks) and is limited to eight students.

   Wed., Sat., 2:00–4:00 p.m. .4M.

   Assistant Clinical Prof. Albert B. Hale,
   Dr. B. I. Strauss.

## XII. DEPARTMENT OF SKIN, GENITO-URINARY, AND VENEREAL DISEASES

### OFFICERS OF INSTRUCTION

Professor JAMES NEVINS HYDE
Associate Professor FRANK HUGH MONTGOMERY
Instructor ALFRED SCHALEK
*Associate HOWARD T. RICKETTS
Assistant WILLIAM A. QUINN

### INTRODUCTORY

The work of this Department is elective and offered to members of the senior class. Instruction is given by clinical teaching both in the College amphitheater and in the Dispensary; by recitations; and by demonstrations to small classes of clinical, bacteriological, and pathological phenomena.

Instruction in this Department is supplemented by ample use of the large collection of dermatological plates, atlases, and photographs arranged in cases in proximity to the upper amphitheater: also by use of the Baretta models lately procured in Paris for the use of this Department. The text-books employed are Hyde and Montgomery's *On the Skin*, and Hyde and Montgomery's *Manual of Syphilis and the Venereal Diseases.*

### COURSES OF INSTRUCTION

#### Senior Year

1. **Skin, Genito-Urinary, and Venereal Diseases.** By Dr. Schalek. A recitation and conference course given to the class in small sections.
   Tues., Thurs., Sat., 9:00.
   Each quarter throughout the year.
   One section each quarter. .6Mj.

2. **Clinical Course.**—Arena Clinic, by Professor Hyde or Associate Professor Montgomery. A clinical course on the subject of the Diseases of the Skin, of the Genito-Urinary Organs, and on Venereal Diseases. This clinic has been conducted in the College for more than twenty years, and is attended by a large number of outpatients of both sexes and all ages.
   Mon., Fri., 2:00–4:00. Throughout the year.
   This course occupies four hours weekly throughout the year. Each quarter's work constitutes .4Mj.

3. **Demonstration Courses.**—By Associate Professor Montgomery. A practical course of clinical, pathologic, and bacteriologic demonstrations in skin and venereal diseases, given to the class in sections of not more than ten.
   Mon., Fri., 2:00–4:00.
   This course occupies four hours weekly during the Autumn and Winter Quarters. Each term's (six weeks) work constitutes a .4M.

4. **Genito-Urinary Diseases.**—A clinical course in diseases of the genito-urinary tract.
   Fri., 4:00–6:00.
   Throughout the year.
   Each Quarter. .2Mj.
   Associate Professor Belfield.

5. **Clinical Course in the Central Free Dispensary.** By Drs. Schalek, Ricketts, and Quinn. A clinical course given to the class in small sections in the Dermatological and Genito-Urinary Department of the Central Free Dispensary. The student is here brought in personal contact with the patients and required to examine and prescribe for them as he would in private practice.
   Daily, 1:00–3:00.
   In sections: each section occupies twelve hours weekly for two weeks. .2M.

---

*Absent in Europe on leave.

## XIII. GENERAL LECTURES

1. **Medical Jurisprudence.**—A lecture course, supplemented by recitations and conferences.
   Winter Quarter, 1902. Hours to be announced.
   Professorial Lecturer,
   Judge Henry V. Freeman and
   Dr. James C. Gill.
   .4M.

2. **The History of Medicine.**—A lecture course by ——— ———— —.
   Winter Quarter, 1902. Hours to be announced.
   Optional course.

3. **Examinations for Life Insurance.**—A lecture and conference course on the nature and purpose of life insurance; the duties and essential qualifications of the examiner for life insurance, etc.
   ———— Quarter. Hours to be announced.
   Dr. J. W. Fisher, M.D.
   Medical Director N. W. Mut. Life Ins. Co.
   Dr. Charles E. Albright,
   2d Asst. Medical Director N. W. Mut. Life Ins. Co.
   Optional course.

Lectures on subjects related to the sciences of Physics, Chemistry, and Biology, in their relation to medicine, will be given during the Winter and Spring Quarters of 1902. Detailed statement of these courses will be announced later.

A summary of the courses offered in each quarter is furnished in the Schedule at Hours furnished to each student at the College office.

The statements of courses offered, as printed in this *Announcement*, is final for the Summer and Autumn Quarters of 1901. A revised summary of the courses to be offered during the Winter and Spring Quarters of 1902 will appear in a circular of information to be issued about December 1, 1901.

## FELLOWSHIPS, HOSPITAL INTERNES, AND PRIZES

### FELLOWSHIPS

The following Fellowships, each of the value of four hundred dollars annually, one in chemistry, two in pathology, one in materia medica and therapeutics, one in medicine, and one in surgery are awarded at each Commencement.

The Walter S. Haines Fellowship in chemistry is awarded to the member of the graduating class recognized as in every way best qualified for the position. He devotes the year succeeding his appointment to original investigation in medical chemistry under the direction of the professor of that Chair in the laboratories of the College. He devotes some time of each day in the College year to the instruction of students, and has opportunity to attend the clinics and pursue other lines of collegiate study.

Two Fellowships in pathology are established with a similar end in view and under corresponding regulations. These Fellows engage in original research under the direction of the Professor of Pathology, and may take part in the work of instruction of students.

A Fellowship in medicine and a Fellowship in surgery have been established with similar duties and on a like basis.

### HOSPITAL INTERNES

Positions as internes in the Presbyterian, the Cook County Hospital, the Michael Reese Hospital, the St. Joseph Hospital, the St. Elizabeth's Hospital, the St. Luke's Hospital, the Augustana Hospital, the Chicago Hospital, the Alexian Brothers Hospital, the Passavant Hospital, the Chicago Policlinic, the German Hospital, the Norwegian Hospital, the Illinois Charitable Eye and Ear Infirmary, and in a much larger list of institutions outside of the city of Chicago which make appointments from the roll of qualified students, are open each spring to graduates through a competitive examination held by the respective hospital staffs.

The occupants of these positions receive their board and lodging, and acquire experience in every department of practical medicine and surgery.

### PRIZES

#### The Benjamin Rush Prize

A medal of the value of fifty dollars is given by the Faculty at each Commencement to that member of the graduating class who passes the highest examination in every department of medicine represented that year in the examination for the degree.

### The Daniel Brainard Prize

A medal is annually given by the Faculty to the student who makes and presents to the College Museum the best accepted dissection in Surgical Anatomy.

### The Freer Prizes

These prizes are derived from the income of a fund presented to the College by the late Nathan M. Freer, of the Board of Trustees, as a memorial of the names of two honored members of his family long identified with the highest interests of this institution.

The J. W. Freer Medal is awarded as a first prize to that member of the Junior class who presents the best written essay on one of the themes annually announced for competition to that class. A second prize is awarded to the next successful competitor. The three subjects from which selections may be made, one of which only can be chosen by each competitor, are announced to the class early in the collegiate year, the essays being submitted to the Faculty on the first of the ensuing April. The subjects for competition for the session of 1901–2 will be given by the Department of Medicine.

The L. C. P. Freer Medal is offered for the year 1901–2 as a first prize to that member of the Sophomore class who presents the best essay on any subject connected with anatomy. Students should consult the Professor of Pathology in regard to selection of topic for this prize. A second prize is awarded to the next most successful of the competitors. This prize will be competed for by students in the medical course of the University. The essays are required to be placed in the hands of the Faculty by April 1902.

### The Edward L. Holmes Prize

In honor of the late Edward L. Holmes, for many years the professor of Diseases of the Eye and Ear in Rush Medical College, and for several years its president, and who during his long career rendered distinguished services to the institution, the trustees have established the Edward L. Holmes prize for original research, to consist of a table and scholarship for one season, at the Marine Biological Laboratory at Wood's Holl, Mass.

This prize is offered in recognition of the great service which is rendered to the medical sciences by research work in biology. The prize will be offered each year to members of the Junior class, and will be awarded for the best original research work performed in any of the laboratories of Rush Medical College. The recipient of the prize will defray his personal expenses.

### The Delaskie Miller Prize

This prize is annually given to the student who does the best work in obstetrics and gynecology.

---

The following students have secured interneships, by examination and appointment, during the Spring Quarter. The duration of service of these interneships varies from one to two years:

| | |
|---|---|
| Hemingway, W. A | Chicago Baptist Hospital |
| McCaw, J. A | Chicago Baptist Hospital |
| Biggar, James H | Chicago Baptist Hospital |
| Tucker, F. F | Chicago Charity Hospital |
| Frisbie, C. B | Chicago Maternity Hospital |
| Freeman, W. M. | Chicago Policlinic Hospital |
| Sidle, Charles D | City Hospital, Stillwater, Minn. |
| Echols, C. M | Cook County Hospital |
| Jones, N. W | Cook County Hospital |
| Mustard, J. H | Cook County Hospital |
| Otradovec, J. H. M | Cook County Hospital |
| Portis, M. M | Cook County Hospital |
| Reed, C. F | Cook County Hospital |
| Sonnenschein, R | Cook County Hospital |
| Stumm, T. W | Cook County Hospital |
| Alford, E. T | Englewood Union Hospital |
| Roach, James J | Englewood Union Hospital |
| Francis, L. M | Eye and Ear Infirmary |
| Knapp, B. J | Eye and Ear Infirmary |
| Dickerson, S. C | Freedmen's Hospital, Washington, D. C. |
| Mahoney, J. B | Lakeside Hospital |
| Hubbard, F. L | Lying-in Hospital |
| Gulick, W. V | Lying-in Hospital |
| Wilder, L | Lying-in Hospital |
| Adair, F. L | Michael Reese Hospital |
| Stinson, B. L | Milwaukee Hospital, Milwaukee, Wis. |
| Boyd, F. P | Presbyterian Hospital |
| Farnum, C. G | Presbyterian Hospital |
| Johnson, A. C | Presbyterian Hospital |
| MacDonald, J. A | Presbyterian Hospital |
| Oliver, P | Presbyterian Hospital |
| Rutherford, L | Presbyterian Hospital |
| Cleff, Oscar | St. Elizabeth's Hospital |
| Griffin, W. J | St. Elizabeth's Hospital |
| Linehan, C. M | St. Elizabeth's Hospital |
| Murray, A. N | St. Elizabeth's Hospital |
| Garvey. A. C | St. Joseph's Hospital |
| Lathrop, H. R | St. Joseph's Hospital |
| Lavin, J. M | St. Joseph's Hospital |
| Van Kirk, F. L | St. Luke's Hospital |
| Franklin, I. J. D | Norwegian Tabitha Hospital |
| Sandbo, T | Norwegian Tabitha Hospital |
| Briggs, S. J | Wisconsin State Hospital for the Insane |
| Mc Lean, Charles R | Norwegian Lutheran Hospital |
| Ashcroft, Felix | Deadwood, So. Dakota, City Hospital |
| Gleason, C. M | Monroe Street Hospital |
| Uehren, W. A | A. T. & St. Fé Ry. Hospital, Topeka, Kan. |
| Wood, F. M | Calumet and Hecla Hospital |
| Patton, F. P | Dunning Institutions |
| Pittman, J. H | Dunning Institutions |
| Uppendahl, W. J | Illinois Steel Co. Hospital, So. Chicago |
| Wright, W. A | St. Mark's Hospital, Salt Lake City. Utah |
| Pixley, Charles, | Northern Pacific R. R. Hospital, Missoula, Mont. |
| Trommald. G. T | Good Samaritan Hospital, Portland, Ore. |
| Ross, M. H | U. S. Marine Hospital, Cairo, Ill. |
| Eignus, W. T | Ass't Physician, Eastern Ill. Hospital, Kankakee |
| Metzger, J. H | Ass't Physician, Toledo State Hospital |

## FELLOWSHIPS AND SCHOLARSHIPS AT THE UNIVERSITY OF CHICAGO

1. *University Fellowships.* There are sixty University fellowships, divided as follows:
   1) Twenty fellowships, each yielding the sum of $520 annually, university fees to be paid out of this sum.
   2) Twenty fellowships, each yielding the sum of $320 annually, university fees to be paid out of this sum.
   3) Twenty graduate fellowships of equal rank with other university fellowships, yielding a sum equal to the university fees for three quarters.

2. *Special Fellowships.* In addition to the regular University Fellowships mentioned above, there are special Fellowships offered by individuals. These vary somewhat in number and amount from year to year. At present they are as follows:
   1) The *William A. and Fanny C. Talcott Fellowships and Scholarships.* In 1896 Wm. A. Talcott, of Rockford, Ill., endowed four Fellowships and Scholarships, two of which bear his name and two the name of his wife, Fanny C. Talcott. They are intended primarily for the benefit of graduates of the Rockford College, but in the absence of such beneficiaries may be assigned to others. They pay the tuition fees of those appointed to them.
   2) The *Bucknell Fellowship*, yielding $400, offered by Mr. Charles Miller, Franklin, Pa., is open to graduates of Bucknell University. The appointment to this fellowship is made by the Faculty of Bucknell University.
   3) The *Vassar Fellowship*, yielding $400, offered by friends of Vassar College. Open to graduates of Vassar College. The appointment to this fellowship is made by the Faculty of Vassar College.
   4) The *Joseph B. Loewenthal Fellowship in Chemistry*, endowed by Mr. Berthold Loewenthal, of Chicago, as a memorial of his son, Joseph B. Loewenthal. It yields about $420 to the incumbent annually appointed.
   5) Three special fellowships, yielding $320, $420, and $520 respectively, offered by friends of the University.

3. *Duties of Fellows.** Each student on a University Fellowship is expected to render assistance of some kind in connection with the work of the University. This assistance consists, for the most part, in service, *a*) as an instructor, either in the colleges of the University or in the affiliated colleges; *b*) as an assistant in reading examination papers; *c*) as an assistant on a University journal; or *d*) as an assistant in one of the departmental libraries, laboratories, or museums. In no case will a student be expected or allowed to devote so much time to the work here indicated as to interfere seriously with his study.

4. *Graduate Scholarships.* Twenty scholarships are assigned annually to students who have completed with honor the work of a Senior College.

   Students receiving graduate scholarships will be expected to render assistance in the libraries. laboratories, and museums, in amount to be determined by the Board of Libraries, Laboratories, and Museums.

5. *Special Graduate Scholarships.*
   1) The *Zuinglius Grover Memorial Scholarship* has been endowed by the Alumnæ of Dearborn Seminary of Chicago in memory of the founder of that Seminary. It provides for the tuition fees of "a woman in the undergraduate department."
   2) The *Lillian Gertrude Selz Scholarship*, endowed by Mr. Morris Selz and his sons E. F. and J. Harry Selz as a memorial of Lillian Gertrude Selz, provides for something more than the tuition fees of a student.
   3) The *Elbert H. Shirk Scholarship*, endowed by Mr. Milton Shirk, of Peru, Indiana, Mr. E. W. Shirk, of Chicago, and Mrs. Alice Shirk Edwards, of Peru, Indiana, as a memorial of their father, provides for the tuition fees of a student.
   4) The *Henry C. Lytton Scholarship*, endowed by Mr. Henry C. Lytton, of Chicago, provides for the tuition fees of a student.
   5) The *Catherine M. White Scholarships.* The late Catherine M. White, of Chicago, made provision in her will for the endowment of three (3) Scholarships, each providing for the tuition fees of a student.

---

*Students desiring fuller information concerning fellowships and the conditions for application, will write for the Circular of Information for the Graduate Schools.

6) The *Andrew McLeish Scholarship*, endowed by Mr. Andrew McLeish, of Chicago, provides for the tuition fees of a student.

7) The *Enos M. Barton Scholarship*, endowed by Mr. E. M. Barton, of Chicago, provides for the tuition fees of a student.

8) A Scholarship not yet named has been established which will provide annually for the tuition fees of a student.

9. The National Society of the Colonial Dames of America in the State of Illinois has made provision for two special Scholarships in History to continue five years.

## MEDICAL SOCIETIES

The fact that a large number of medical men practice in Chicago has led to the establishment of a number of medical societies, general and special. Among the more interesting to medical students in the early years of their course is the Chicago Pathological Society. A large number of clinical societies, notably the Chicago Medical Society and its various branches, will interest the student particularly in the later years of his course.

The Students' Medical Society of Rush Medical College meets monthly, on Friday evening, in the Laboratory Building. The research work of students in the laboratories and clinics is here reported, and current topics of medical interest discussed.

The University of Chicago Medical Club meets on the first and third Monday evenings of each month in the amphitheater of the Kent Chemical Laboratory at 8:15. At the meetings of this society the advanced work and original research of the various laboratories will be reported, and topics of general medical and scientific interest will from time to time be discussed. The meetings will be open to medical students. The society holds no meetings during the Summer Quarter.

## ALUMNI ASSOCIATION

The Alumni Association of Rush Medical College holds yearly meetings. These meetings which precede the regular commencement of the College, will occur on June 16, 17, and 18, 1902. All graduates of the College in good standing are eligible to membership, which can be obtained by the payment of the annual dues. The dues should be sent to the secretary of the Association. The officers for the year ending July 1, 1902 are as follows:

| | |
|---|---|
| President, Dr. Joseph W. Edwards, '54 | Mendota, Ill. |
| First Vice President, Dr. D. H. Bowen, '76 | Waukon, Ia. |
| Second Vice President, Dr. A. W. Troupe, '84 | Pine Bluff, Ark. |
| Third Vice President, Dr. C. A. Ullerick, '93 | Chicago, Ill. |
| Secretary and Treasurer, Dr. John Edwin Rhodes, '86 | Chicago, Ill. |
| Necrologist, Dr. A. L. Craig, '78 | Chicago, Ill. |

Alumni are requested to inform the College Historian, Dr. Rhodes, of any change of address. They will also confer a favor by sending him a copy of any address, program, or other document, relating to the early history of the college.

## MATRICULATES FOR THE SESSION OF 1900–1901

The following list includes only those students who were in attendance during one or more quarters, and who were entitled to take the Quarterly Examinations:

### FRESHMAN CLASS.

| NAME | RESIDENCE | PRECEPTOR |
|---|---|---|
| Abelman, Henry W. | Palatine, Ill. | W. L. Smyser |
| Allison, Robert Seaman | Rockwell City, Ia. | A. C. Norton |
| Appleman, Roger William | Claremont, Ia. | Faculty |
| Avery, Hayen Lorenzo, B.S. | Pomona, Cal. | Faculty |
| Baldwin, Leon Alva, B.S. | Elliott, Ia. | Faculty |
| Baldwin, Leo Elmer | Elizabeth, Ill. | W. N. Clifford |
| Banker, Edwin Warr | Aurora, Ill. | H. A. Bremecker |
| Barclay, Charles Kinney | Peoria, Ill. | Faculty |
| Berfield, Clyde | Toulon, Ill. | Faculty |
| Berger, Franklin Andrew | Michigan City, Ind. | J. C. Berger |
| Bloor, Edwin Garfield | Hartford, Wis. | Faculty |
| Borralli, William Francis Aloysius | Chicago | P. Monaco |
| Buckley, Edward John | Chicago | Faculty |
| Bucknall, Albert Harrold | Lake Geneva, Wis. | A. F. Bartell |
| Burlew, Jesse Manning, Ph.B. | Grinnell, Ia. | E. W. Clark |
| Butzke, Ernest John | West Bend, Wis. | Dr. Heidner |
| Calkins, Seba Boyd | Ottawa, Ill. | Faculty |
| Campbell, Roscoe | Mt. Ayr, Ia. | C. F. Leson |
| Cannon, William P. | Chicago | Faculty |
| Carpenter, Locke Houghton | Chicago | Faculty |
| Colin, George | Chicago | F. Bohnett |
| Colver, Harley Ross | New Lisbon, Wis. | R. W. Hoyt. |
| Crawford, Lawrence | Taylor Ridge, Ill. | Faculty |
| Cunningham, Orval James | Keytesville, Mo | B. Hughes |
| Dale, William Henry | Chicago | Faculty |
| Dick, George Frederick | Fort Wayne, Ind. | Faculty |
| Dondanville, Martin Sherman | Serena, Ill. | W. G. Putney |
| Doyle, Thomas Francis | El Paso, Ill. | L. M. Doyle |
| Eldridge, William Roy | Greenview, Ill. | F. P. Eldridge |
| Ferris, Hiram Gano, B.S. | Fountain Green, Ill. | C. L. Ferris |
| Fischer, Walter Dederic | Elmhurst, Ill. | F. J. T. Fischer |
| Fox, William Edward | Milwaukee, Wis. | G. W. Fox |
| Fraunfelter, Clare Edwin, A.B. | Canton, O. | James Fraunfelter |
| Garrison, Frederick Franklin | Chicago | Frank Billings |
| Garrity, James | Elroy, Wis. | D. D. Beebe |
| Gephart, Curtis Hicks, B.S. | Valley Falls, Kan. | J. T. B. Gephart |
| Hare, James Samuel Martin | Soperville, Ill. | Rev. Thomas Adams |
| Harms, Arthur Henry | Dixon, Ill. | Lydia Williamson |
| Hatch, Edward White | Chicago | C. V. Hatch |
| Hayden, Austin Albert, A.B. | Schullsburg, Wis. | A. Hayden |
| Hayden, John Gardner | Holton, Kan. | E. E. Heath |
| Heaney, Noble Sproat | Quincy, Ill. | W. S. Knapheade |
| Henning, Oswald Frederick | Chicago | H. J. Haiselden |
| Herdlicka, William | Chicago | C. J. Ocasek |
| Herrick, Dwight Orson | Farmer City, Ill | Faculty |
| Hodges, Vernard Reno | Lead, S. Dak. | H. S. Judd |
| Hogenson, William Swen | East Jordan, Utah | Faculty |
| Hosmer, Harry Marvin | Maryville, Mo. | C. A. Ellis |
| Houk, William Frederick | Crown Point, Ind. | Faculty |
| Houser, Mortimer A. | Mondovi, Wis. | T. G. Conger |
| Howell, Harry Lee | Kouts, Ind. | L. G. Howell |
| Hunt, Lee F | Anderson, Ind. | J. W. Hunt |
| Huston, John Walter, B.S. | Gibson City, Ill. | F. B. Lovell |
| Joffee, William | Chicago | B. Joffee |
| Jongewaard, Albert C. | Orange City, Ia. | Faculty |
| Kendall, Guy Mumford | Fort Dodge, Ia. | Faculty |
| Kenyon, Robert Edwin | Chicago | Faculty |
| Kinney, Ralph Henry | Lancaster, Wis. | Faculty |
| Knauf, Edmund George | Sheboygan, Wis. | W. H. Gunther |
| Koch, George William | Akron, Ia. | R. D. Clark |
| Kohn, Frederick Abraham | Chicago | Faculty |
| Kradwell, William Theodore | Boscobel, Wis. | Faculty |
| Laird, John Jamison | Wittlin, Wis. | N. P. Mills |
| Lewis, John Francis | Quincy, Ill. | C. C. Scott |
| Lindorff, Oscar William, B.S. | New Windsor, Ill. | Faculty |
| McDonald, Charles Henry | Cadwell, Ill. | Faculty |
| Madler, Nicholas Allen | Appleton, Wis. | J. V. Canavan |
| Maguire, James Bernard | Chicago | L. O'Shea |
| Marvel, William Justin | Waynesville, Ill. | W. H. Smith |
| Matter, Lloyd Emerson | Freeport, Ill. | P. C. L. Mease |
| Metcalf, Howard Lee | Mechanicsburg, Ill. | Faculty |
| Mitchell, Robert Sanford | Red Cloud, Neb. | Faculty |
| Morrell, Joseph R. | | |
| Mosher, George Warner, B.L. | Prophetstown, Ill. | Faculty |
| Murphy, Andrew Jackson | Portage, Wis. | H. T. Murphy |
| Nalty, R. | Monroe, Wis. | Faculty |
| Nickerson, Anson Leroy | Chatham, Ont | S. S. Thomas |
| Nicolai, John Leonard | Chicago | J. Nicolai |
| O'Connell, John Patrick | Bloomington, Ill. | T. C. Gernon |
| O'Hern, Michael James, A.B. | DeWitt, Ia. | Faculty |
| Pearson, Charles Magnus | Ogema. Wis. | Jacob Visser |
| Peters, William Robert | Basswood, Wis. | C. R. Pickering |
| Potts, Frank Tuthill | Lacon, Ill. | J. W. Potts |
| Prouty, Lee Blanchard | Tracy, Minn. | Faculty |
| Powell, Dyer Jacob | Logansport, Ind. | J. Z. Powell |
| Renwick, Joseph Clyde | Warren, Ill. | F. M. Eade |
| Saunders, Lindsey | Quaker, Ind. | W. P. Darroch |
| Schwartz, Arthur | Norway, Mich. | Faculty |
| Sether, Alvin Fernando | Waupaca, Wis. | G. L. A. Hale |
| Shaffrey, Clarence Eugene | Logansport, Ind. | Stevens and Busjahn |
| Sheldon, John Rufus | Sterling, Ill. | Faculty |
| Shephard, John Hunt | Fort Madison, Ia. | I. W. Traverse |
| Smedal, Gregar, A.B. | Teatdel, Norway | L. Hektoen |
| Smith, William Eli, B.S. | Little York, Ill. | Faculty |
| Stark, Herbert Cholet | Blufftown, Ind. | H. Stark |
| Steely, George, Jr. | Danville, Ill. | H. W. Morehouse |
| Stewart, Earl Bryan | Mason City, Iowa | Faculty |
| Swift, William James | Kansas City, Mo. | Miege Thomas |
| Teegarden, Arche | Attica, Ind. | W. A. Willis |
| Thorek, Max | Chicago | P. A. Crum |
| Troutman, Rodney Elbridge | Logansport, Ind. | J. A. Little |
| Van Druff, Lucius Marchand | Valley Falls, Kan. | Faculty |
| Wicherski, Otto | New Ulm, Minn. | Faculty |
| Wilmot, Clausson Morrell | Camp Grove, Ill. | J. E. Armstrong |
| Witherstine, William Horace | Rochester, Minn. | H. H. Witherstine |
| Wolff, Maurice Berwin | Chicago | D. F. Monash |
| Woodcock, Albert | Byron, Ill. | A. J. Woodcock |

### SOPHOMORE CLASS.

| NAME | RESIDENCE | PRECEPTOR |
|---|---|---|
| Ahrens, Edward G. | Davenport, Ia. | W. L. Allen |
| Altman, Maurice | Lincoln, Ill. | L. L. Leeds |
| Anderson, George Minor, A.B. | Fayette, Mo. | A. W. Moore |
| Baldwin, Floyd McKennan | Kendall, Wis. | Faculty |
| Baldwin, Thomas Chenoweth, B.S. | Dixon, Ill. | Faculty |
| Bardsley, William James, A.B. | Gunnison, Utah | Faculty |
| Barnes, Charles Wesley | Thomasville, Ga. | Faculty |
| Barnes, Herbert Trumbull | Elkhorn, Wis. | Edward Kinne |
| Bauder, George Washington, A.B. | Middletown, Pa | Faculty |
| Beall, Leon Frank | Chicago | W. C. McCutcheon |
| Behrentz, Olav Sjowick | Duluth, Minn. | Faculty |
| Berry, William Albert | Unionville, Mo. | A. C. Berry |
| Blake, Joseph Michael | Chicago | P, A. Crum |
| Blatt, Maurice Lamm | Chicago | D. Merriman |
| Bloch, Leon, A.B. | Chicago | Faculty |
| Bolender, Stephen Aly | Freeport, Ill. | Faculty |
| Bosenbury, Charles Searles, B.S. | Richmond, Ind. | Faculty |
| Bottum, Charles Norman, B.S. | Westfield, Pa. | Faculty |
| Bowes, Leon Maurice | Mauston, Wis. | J. B. Edwards |
| Bradley, Edwin Bruce | Charles City, Ia. | Faculty |
| Bridgman, John Charles | Darlington, Wis. | E. S. Hooper |
| Britell, Oley Alphonso, B.S. | St. Edward, Neb. | Faculty |
| Brown, Carter Van V., B.S. | Chicago | A. C. Brown |
| Brown, Royal Oscar | Freeport, Ill. | D. C. Mease |
| Bruehl, Anthony Frederick | Cold Water, Mich. | Faculty |

| NAME | RESIDENCE | PRECEPTOR |
|---|---|---|
| Bruggeman, Henry Otto | Logansport, Ind. | Stevenson and Busjahn |
| Bryan, Alva Howard | Portage, Wis. | Faculty |
| Burrell, Paul Julien | Freeport, Ill. | Faculty |
| Burt, Russell Ross | Omaha, Neb. | Faculty |
| Calderwood, William Robert | Salt Lake City, Utah | J. T. Kingsbury |
| Campbell, Alpha John | Boulder, Colo. | James H. Baker |
| Carlson, Carl William, A.B. | Chicago | Faculty |
| Childs, Hal A. | | |
| Clancy, Eugene G. | Chicago | Faculty |
| Clapp, Fred Raymond | Albion, Ind. | Faculty |
| Clarke, George Morgan | Chicago | O. H. E. Clarke |
| Cleveland, Charles William | Chicago | G. H. Cleveland |
| Cole, Thomas Oliver, Ph.G. | Edinburg, Ill. | Milligan and Stokes |
| Colnon, Aaron T. | Chicago | P. J. Collins |
| Connor. Arthur Edward | Caledonia, Minn. | Faculty |
| Corey, Frederick Johnson | Auburn Park, Ill. | E. F. Lind |
| Crabb.James Maurice, Ph.B. | West Plains, Mo. | Faculty |
| Cummings, Henry Thompson | Chicago | Andrew Cummings |
| Darmer, George Alexander, A.B. | Champaign, Ill. | W. K. Newcomb |
| Darroch, Samuel Chambers | Cayuga, Ind. | W. P. Darroch |
| Darst, John | Galesburg, Ill. | D. J. Loring |
| Dart, Ralph | Rock Island, Ill. | Faculty |
| Dauer, Adam Jacob, A.B. | Delta, O. | Faculty |
| Davis, Charles Braden, A.B. | Chicago | C. G. Davis |
| Davis, David John | Racine, Wis. | Faculty |
| Delaney, Harry Oscar | Avoca, Wis. | J. T. Mann |
| Dent, Francis Edward | Alexandria, Minn. | S. M. McEwen |
| De Pree, Seine Bolks, A.B. | Sioux Center, Ia. | A. De Bey |
| Derbyshire, John Emerson, B.S. | Cammack, Ind. | H. A. Cowing |
| Dewey, James Edwin | Stockton, Kan. | Faculty |
| Dickey, Claude George, Ph.B. | Maxwell, Ia. | Faculty |
| Dirks, Charles B., Ph.B. | La Grange, Ill. | Faculty |
| Dreyer, John William, B.S. | Fitchburg, Wis. | L. R. Head |
| Duane, Joseph Francis | Peoria, Ill. | Faculty |
| Ecke, Arnim C. | Fond du Lac, Wis. | A. H. Halsey |
| Ellison, Gayfree | Lindsborg, Kan. | C. L. Leonard |
| Fehring, William Bernhardt | Virginia City, Mont. | Faculty |
| Ferguson, Roy Ralph | Hastings, Neb. | J. C. Roberst |
| Fick, Edward Paul | Chicago | D. Lee Shaw |
| Fischer, Herman | Pardeeville, Wis. | Faculty |
| Fitzpatrick, Martin William | Decatur, Ill. | Faculty |
| Fox, Robert Eastburn | Bryn Mawr, Pa. | W. C. Powell |
| Freeman, William LaFayette | Midway, Wis. | W. A. Lester |
| Fullenwider, Charles Munsell | El Dorado, Kan. | W. L. Fullenwider |
| Funck, George William | Milwaukee, Wis. | Faculty |
| Ganzevoort, Andrew, A.B. | Hospers, Ia. | A. De Bey |
| Gasche, Louis Edmund | Wooster, O. | H. H. Young |
| Geisel, Ezra Edward | St. Killian, Minn. | Dr. Sullivan |
| Goldblum, George Joseph | Minneapolis, Minn. | Faculty |
| Goldblum, Jacob G. | Minneapolis, Minn. | Faculty |
| Goodwin, Clarence Gilbert | Decatur, Ill. | Faculty |
| Gordon, John Bowers, B.S. | Chesterville, O. | Faculty |
| Gordon, William Alexander, Jr., B.S. | Winnebago, Wis. | W. A. Gordon |
| Gorr, Charles William | Milwaukee, Wis. | Faculty |
| Greig, Thomas Oliver | Chicago | J. F. Dewey |
| Guthrie, James Doctor | Oskaloosa, Ia. | A. Hull. |
| Gunby, Joseph Chester | Buffalo, Kan. | B. E. Jones |
| Haecker, Theodore Clarence | Hampton, Ia. | Haecker & Melerian |
| Hagaman, Homer Clifford | Clinton, Ala. | Faculty |
| Hagen, Henry Otto | New Richland, Minn. | Faculty |
| Hamman, Amos F. | Meredosia, Ill. | Faculty |
| Hanson, Halvor C. | Manitowoc, Wis. | J. F. Pritchard |
| Harter, Randolph Samuel | Wenona, Ill. | E. W. Oliver |
| Henderson, Robert, Jr. | Buchanan, Mich. | W. J. Bradley |
| Henneberry, Ambrose M. | Dalton City, Ill. | Faculty |
| Hill, Earl Vernon | Andover, O. | Faculty |
| Hogan, Thomas Aldhelm | Chicago | Faculty |
| Howe, Spencer S. | Savannah, Ill. | G. W. Johnson |
| Huey, Walter Bayard | Chicago | Z. E. Patrick |
| Jacobs, Edward Harrold | Burlington, Wis. | W. F. Jacobs |
| Jacobson, Louis Christian | Elro, Wis. | W. E. Uttendorferl |
| John, Findley Dayton | Chicago | Faculty |
| Johnson, Carl Emanuel, A.B. | Pilot Mound, Ia. | Faculty |
| Jonker, Henry Lambert, A.B. | Uriesland, Mich. | Faculty |
| Kariher, Harry Cullen | Champaign, Ill. | Faculty |
| Keenan, Harry Anthony | Oregon, Wis. | George Keenan |
| Keller, Simon O. | Sauk City, Wis. | Faculty |
| Kelley, Thomas Henry | Appleton, Wis. | J. V. Canavan |
| Kelsey, Arthur Jones | Monterey, Ind. | Wm. Kelsey |
| Kernan, Thomas Edwin Barron | St. Augustine, Fla. | J. K. Rainy |
| Koerper, Peter Joseph | Chicago | J. W. Germer |
| Krieger, Wilhelm Emil | Belle Plaine, Minn. | G. R. Moloney |
| Laker, Lashbrook Bryceson | Salt Lake City, Utah | J. T. Kingsbury |
| Landes, George Albert | Arkansas City, Kan. | Faculty |
| Lane, Robert Nelson, | Danville, Ill. | A. E. Johnson |
| Law, Edward Frederick | McDowell, Ill. | Faculty |
| Layton, Edgar Nelson, A.B. | Grand Junction, Colo. | E. F. Eldridge |
| Lewis, Claude Bernard, B.S. | Sauk Centre, Minn. | Faculty |
| Lofgren, Carl Alben | Dayton, Ia. | Faculty |
| Lurie, William A. | Chicago | M. A. Weisskopf |
| McClintock, Roy White, A.B. | Boston, Mass. | Faculty |
| McClusky, Otto Wilber | Traverse City, Mich. | C. H. Horn |
| McCusker, C. J. | | |
| McIntosh, Oliver Allen | Chicago | H. H. Vanpell |
| McKenna, Corey Hugh, B.S. | Platteville, Wis. | Wm. Eastman |
| McNeill, Samuel Johnson, B.S. | Hopkinton, Ia. | Livingston & Williamson |
| McShane, John James Hugh | Ivesdale. Ill. | Faculty |
| Manson, Almon Augustus | Merrill, Ia. | Faculty |
| Marchildon, John Woods | Thebes, Ill. | J. D. Porterfield, Jr |
| Martin, Loran Marshall, B.S. | Pomeroy, Ia. | D. F. Martin |
| Matthews, John Bell | Moscow, Idaho | W. W. Watkins |
| Mau, Otto Frederick | Wheaton, Ill. | C. D. Wescott |
| Merrill, Orland Paul | Elgin, Ill. | Faculty |
| Miller, George P. | Chicago | Faculty |
| Miltimore, Ira | Janesville, Wis. | C. G. Chittenden |
| Mitchell, William James | Chicago | Faculty |
| Moffett, Harry Crandall | Clinton, Ia. | R. S, Bingham |
| Monahan, Daniel George | East Troy, Wis. | Faculty |
| Mraz, John Zdeuek | Chicago | Faculty |
| Newcomer, Lloyd Ellenberger, A.B. | Chicago | Faculty |
| Nixon, Samuel Daniel | Kearney, Neb. | Faculty |
| Novak, Charles E. | Chicago | W. A. Weisskopf |
| Noyes, George, Jr. | Waupaca, Wis. | Fadulty |
| Oberembt, Bernard H. | Ashton, Wis. | Faculty |
| O'Brien, Charles Laurentine | Chicago | D. Lee Shaw |
| O'Brien, Edward Joseph | Chicago | Faculty |
| O'Connell, Joseph | Watertown, Wis. | W. F. Whyte |
| Olson, Orvil Augustus | Axtel, Neb. | F. W. Whitney |
| Owen, Carl Shuey, Ph.B. | Westfield, Ill. | Faculty |
| Palmer, Adelbert Lee | Logansport, Ind. | B. C. Stevens |
| Palmer, Don Henry, A.B. | Seattle, Wash. | Faculty |
| Panushka, Paul Wright | Chicago | Faculty |
| Parish, Ora Frank, Ph.B. | Grinnell, Ia. | P. E. Somers |
| Parsche, Thomas William | Chicago | C. G. Davis |
| Peairs, Ralph Plummer | Normal, Ill. | G. M. Peairs |
| Pearson, Louis Mossop | Madison, Wis. | J. A. Jackson |
| Perkins, Stanley Ruben | Mishawaka, Ind. | Faculty |
| Perry, Carl Dio, A.B. | San Erancisco, Cal. | Faculty |
| Pitzele, William Aaron | Chicago | Faculty |
| Polkey, Hugh James, B.S. | Chicago | Faculty |
| Rainier, Alfred P. | Brookston, Ind. | D. M. Kelley |
| Rea, Robert H. | Culver, Ind. | Faculty |
| Reed, Henry David | Uniontown, Pa. | J. J. Reed |
| Reeder, William George, B.S. | Tipton, Ia. | Faculty |
| Rehling, William Benjamin | Waterloo, Ill. | L. Adelsberger |
| Reinhard, Hans August | Milwaukee, Wis. | Faculty |
| Reppert, Philip Arthur | Burlington, Ia. | F. A. Ambler |
| Rietz, Hugo Charles, | Manitowoc, Wis. | L. C. Borland |
| Ritchey, John Paul, A.B. | Chicago | Faculty |
| Roark, Burchard Hayes | Lebanon, Ind. | Faculty |
| Robb, James Bryson, B.S. | Russell, Ia. | Faculty |
| Roberts, John A. | Portage, Wis. | B. C. Macher |
| Rochow, Carl John Frederick, B.S. | Rock Island, Ill. | Faculty |
| Rolfe, James Arthur | Chicago | Faculty |
| Rowan, Walter Hawthorne, B.S. | Wesson, Miss. | J. A. Rowan |
| Ruediger, Ernest Henry | Arcadia, Wis. | William Heiss |
| Ruediger, Gustave Ferdinand, B S. | Alma, Wis. | Faculty |
| Rugh, Ralph Elliott, B.A. | Fort Collins, Colo. | Faculty |
| Sanborn, Edward Parker | Tifton, N. H. | G. L. Rhimpton |
| Scheer, George Henry | Sheboygan, Wis. | Faculty |
| Salamson, Max Jason, B.S. | Chicago | Faculty |
| Schlag, Rex Alexander | Prairie du Sac, Wis. | Faculty |
| Schoen, Roland Eugene | Mayville, Wis. | A. F. Schoen |
| Schwuchow, Walter Bernard | Chicago | G. Sanderson |

| NAME | RESIDENCE | PRECEPTOR |
|---|---|---|
| Scouller, John D., Jr. | Pontiac, Ill. | J. D. Scouller |
| Scullin, Charles Edwin | Peoria, Ill. | N. C. Dougherty |
| Schultz, Arthur Francis | Chicago | R. G. Collins |
| Sessions, John Chandler | Minneapolis, Minn. | J. H. Sessions |
| Seymour, Ernest Delacy | Dwight, Ill. | Faculty |
| Shapiro, Hymen Bernard | Chicago | Faculty |
| Shaw, Harry, A.B. | Whitsenville, Mass. | Dr. Harriman |
| Sherman, Adam Edward | Appleton, Wis. | N. P. Mills |
| Shinnick, John Dill | Watertown, Wis. | E. P. Hollman |
| Showers, William Edward | Bloomington, Ind. | Faculty |
| Siefert, Carl Fred | Milwaukee, Wis. | Faculty |
| Slepicka, Joseph Frank | Chicago | O. L. Smith |
| Smith, Robert Abercrombie | Rock Springs, Wyo. | E. E. Smiley |
| Snively, Henry Hamilton | Chicago | Faculty |
| Snyder, Henry Galen | Seneca, Kan. | Alvin Snyder |
| Spicer, Clinton Elbert | Rio, Wis. | Faculty |
| Staudt, Ira Kester | Union City, Ind. | G. Reynard |
| Stevens, George | Rochester, Minn. | Faculty |
| Stevenson, Frank H., A.B. | Rising Sun. Ind. | G. A. Stevenson |
| Strand, Benjamin Frederick | San Francisco, Cal. | L. Hektoen |
| Strobridge, Jesse George | Elgin, Ill. | Faculty |
| Swisher, Thomas Justin | Eliza, Ill. | Faculty |
| Taylor, E. | | |
| Tholen, Emil Francis | Port Washington, Wis. | W. F. Scott |
| Thomas, Verlin C. | Traverse City, Mich. | C. F. Grown |
| Thomsen, Thomas W. | | |
| Tuffley, Frank Sylvester | Boscobel, Wis. | Thomas Tuffley |
| Ulrey, Albert B., A.M. | North Manchester, Ind. | Faculty |
| Underwood, Frank | Chicago | Faculty |
| Ury, John Busby | Defiance, O. | Faculty |
| Van Cott, Ernest | Salt Lake City, Utah | Dr. Croxall |
| Van Cott, Harold | Salt Lake City, Utah | J. E. Talmage |
| Vanderhoof, Don Allison, B.L. | Wheaton, Ill. | Faculty |
| Van Dyke, John Henry | Alexandria, Minn. | S. M. McEwen |
| Vogel, Joseph Herman | New Ulm, Minn. | Faculty |
| Walpert, Bernard Elias | Chicago | Rudolph Menn |
| Ward, George Alexander | Shelbyville, Ill. | Theo. Thompson |
| Waugh, John Franklin, B.S. | Fairfax, Mo. | Faculty |
| Weiss, John Michael | Rock Island, Ill. | Faculty |
| Werner, Nels | Chicago | Faculty |
| Wertman, Harry Jacob | Milford, Neb. | G. W. Brandon |
| West, Pearl | Pleasant Hill, O. | Faculty |
| Westcott, Orville De Witt | Gladbrook, Ia. | G. H. Hill |
| Whare, George Bartholomew, B.S. | Madison, Wis. | George Whare |
| Winsor, Richard Frederick | Auburndale, Mass. | R. Winsor, D.D. |
| Wolf, Herman Emil, B.S. | La Crosse, Wis. | H. H. Wolf |
| Worley, Robert Edwin | El Paso, Ill. | F. Stubblefield |
| Yeck, Fritz Carl, | Meredosia, Ill. | Faculty |
| Young, Eugene Yetman | Glasgow, Ky. | Faculty |

## JUNIOR CLASS

| NAME | RESIDENCE | PRECEPTOR |
|---|---|---|
| Adams, James Ladlie | Pittsfield, Ill. | J. Estill Miller |
| Aiken, Cullen Perry | Evansville, Ind. | Faculty |
| Allen, Harry Sheldon | Keithsburg, Ill. | J. S. Allen |
| Anderson, John Milton | Greenville, O. | L. C. Anderson |
| Ansley, Robert | Westville, Ind. | H. N. Evans |
| Baker, Clark Dyer | Minden, Neb. | Faculty |
| Ball, William Reaves | Mitchell, S. Dak. | W. E. Crane |
| Barber, John Raymond, A.B. | Portland, Ore. | Faculty |
| Barlow, Thomas Howell | Fargo, N. D. | I. N. Wear |
| Barnebee, James Hosea | Mendon, Mich. | S. A. Edwards |
| Barrett, Charles Cyrus | Spring Valley, Ill. | S. E. Beebe |
| Barry, Howard Jerome | Floyd, Wis. | Faculty |
| Barry, Russell Thomas | Chicago | John M. Cooke |
| Bath, Dane Henry | Chicago | Faculty |
| Bawden, Frank Clare | Pontiac, Ill. | Dr. Rose |
| Bear, Wilson Grant, B.S. | Orangeville, Ill. | Faculty |
| Benjamin, Ralph Linwood | St. Anne, Ill. | S. S. Thomas |
| Benson, Adelbert Harold | Lake Park, Ia. | Faculty |
| Benson, John Paul | Peoria, Ill. | Faculty |
| Bernhardi, Carl Oscar | Rock Island, Ill. | C. Bernhardi |
| Bernhardt, John Matthew | Cassville, Wis. | C. DeJong |
| Bessette, Adelard Elphige | Chicago | F. S. J. Bessette |
| Best, Bruce Taylor | Arlington Heights, Ill. | J. E. Best |
| Biedenkopf, Christian John | Grand View, Ind. | J. F. White |
| Bilsborrow, George Burton | Wolverton, Minn. | J. D. McDonnell |
| Blakesley, Theodore Seward | Rock Island, Ill. | Faculty |
| Boatman, Harry Forman | Knoxville, Ill. | E. Schwartz |
| Bostwick, James Grimes | Mishawaka, Ind. | Faculty |
| Briggs, Carl Francis | Sullivan, Ind. | Charles F. Briggs |
| Brower, Daniel Roberts, Jr. | Chicago | Daniel R. Brower |
| Brown, Charles Percy | Chicago | W. L. Brown |
| Bruce, John Percy | Chicago | Dr. Downey |
| Buckland, Ralph Hale, A.B. | Dartford, Wis. | Faculty |
| Burke, Walter Henry Ambrose | Walker, Ia. | Faculty |
| Campbell, Charles Samuel | Ottawa, Kan. | Faculty |
| Carnelley, James Henry | Joliet, Ill. | Faculty |
| Carney, John Robert | Logansport, Ind. | B. C. Stevens |
| Chapin, Gardner Spring | Winside, Neb. | A. T. Chapin |
| Clough, Francis Edgar | Deadwood, S. D. | A. Strachen |
| Collins, James Patrick | Chicago | P. J. Collins |
| Colwell, John Bruner, Ph.B. | Bloomington, Ill. | Faculty |
| Cornish, Edwin Joseph, B.S. | Myrna, Minn. | E. D. Cornish |
| Coverdale, Earl Gilbert | Decatur, Ind. | J. S. Coverdale |
| Cox, Roy Herndon | Trenton, Mo. | Faculty |
| Dally, Harry Homer | Kempton, Ill. | H. M. Dally |
| Daniels, Charles Edward | Marion, Ia. | F. E. Fullerton |
| Darby, George Switzer | Otterbein, Ind. | Faculty |
| Darling, Frank Woolson, B.S. | La Grange, Ill. | Bayard Holmes |
| Davies, Charles G., B.S. | Spring Green, Wis. | Faculty |
| Davies, Howell Emlyn, Ph.D. | Chicago | L. M. Powell |
| Davis, John Westby | Defiance, O. | Faculty |
| Dolan, William | | |
| Donlon, William James | Las Animas, Col. | B. H. Chamberlin |
| Dunlap, Robert Elberon, B.S. | Clarinda, Ia. | Faculty |
| Edgar, Nelson | Holstein, Ia. | J. C. Edgar |
| Eickelberg, Fred August | Juneau, Wis. | Faculty |
| Elfrink, Benjamin Franklin, B.S. | Aurora, Ill. | Faculty |
| Emley, Samuel Charles, A.B. | Great Bend, Kan. | J. Hess |
| Everly, Walter, B.S. | Goldthwaite, Tex. | Faculty |
| Falker, William Henry | Chicago | Faculty |
| Fay, Oliver James | Pottsville, Ia. | Faculty |
| Fithian, George Rolland | Newton, Ill. | Faculty |
| Fitzmaurice, Edward Stokes | Stokesville, N. D. | Edw. Fitzmaurice |
| Fletcher, Frank D. | Chatham, Ill. | J. T. Woodward |
| Foat, John Samuel, A.B. | Glenn, Wis. | E. C. Barnes |
| Ford, William Brown, B.S. | Sparta, Wis. | Faculty |
| Fowler, James Harmon | McCook, Neb. | M. V. Gage |
| Fox, Philip Angus | Milwaukee, Wis. | A. T. Holbrook |
| Frick, John Merl | Ottawa, O. | C. E. Beardsley |
| Frye, Clarence Maxfield | Morrison, Ill. | D. B. Seger |
| Fuller, Spencer Samuel | Hoopeston, Ill. | H. L. Day |
| Fulton, Thomas Cooper, B.S., LL.B. | | |
| Gardner, Cyrus Alvin, A.B. | Kendallville, Ind. | Faculty |
| Gay, Robert James, B.S. | Madison Wis. | Faculty |
| Getz, Nathan Worley | Marshalltown, Ia. | H. L. Getz |
| Gleason, William Thomas | Gladstone, Mich. | R. S. Forsyth |
| Gleeson, Benjamin, Ph.G. | Springfield, Ill. | Faculty |
| Goldberg, Joseph | Chicago | Jacob Apt |
| Good, Robert Hosea, B.S. | Waterloo, Ont. | Joel Good |
| Graham, John Albert | Chicago | T. P. Lynam |
| Greenbaum, Frederick | Chicago | M. Whill |
| Grosvenor, Lorenzo Nelson, M.D., | Chicago | W. F. Grosvenor |
| Gullixson, Andrew, B.A. | Bode, Ia. | T. E. Livingston |
| Hamill, Ralph C., Ph.B. | Chicago | Faculty |
| Hamley, Eugene Carter | Chicago | A. B. Bowen |
| Harding, George Forstner | Brigham City, Utah | Faculty |
| Harris, Clinton Ephraim | Grinnell, Ia. | E. H. Harris |
| Harris, Oscar Porter | Meriden, Ill. | G. J. Wormley |
| Harrold, Edwin Orren, A.B. | Roll, Ind. | J. A. Harrold |
| Hastings, John Charles | Bailey, Ia. | H. T. Walker |
| Haynes, Halbert Andrew, B.S. | Chicago | R. L. James |
| Helton, Alfred Joseph | Atwood, Ill. | Faculty |
| Henneberry, Ambrose M. | Dalton City, Ill. | Faculty |
| Hogan, John Martin | Waunakee, Wis. | M. O'Malley |
| Hoiby, Charles Oscar | Chicago | Faculty |
| Holinger, Otto, D.D.S. | Chicago | Faculty |
| Hopkins, Edward Howard | Spokane, Wash. | E. Dwight Howard |
| Houlihan, Thomas Joseph | Charter Oak, Ia. | J. J. McWilliams |
| Hoyt, Doc Colley | Chicago | Faculty |
| Huckin, William | Ogden, Ill. | J. F. Harris |
| Hughes, Lawrence Jesse | Decatur, Ind. | S. D. Beavers |
| Huizenga, Richard, A.B. | Rock Valley, Ia. | F. J. Huizenga |
| Hulbert, Charles Darwin | Chicago | D. B. Fonda |
| Jackson, Gustavus Brown | Owensboro, Ky. | D. F. Griffith |
| Jadarola, Raimondo | Detroit, Mich. | Faculty |
| Johnson, Arnold Edwin, Ph.B. | Red Wing, Minn. | H. L. McKinstry |
| Johnson, David Powell, Ph.B. | Muscatine, Ia. | Faculty |
| Johnson, Henry Benton | Pomona, Kan. | Faculty |

| NAME | RESIDENCE | PRECEPTOR |
|---|---|---|
| Johnson, Paul Wardner B.L. | Stone Fort, Ill. | S. J. Blackman |
| Kennett, George Hempstead, B.S. | Missoula, Mont. | Faculty |
| Kieffer, Edward John | Mineral Point, Wis. | Faculty |
| Kierland, Peter E. | Rushford, Minn. | Faculty |
| Kinnaman, Guy Carson | Ashland, Ohio | R. C. Kinnaman |
| Kistner, John Wesley | Elkhart, Ind. | I. W. Short |
| Kittoe, Richard Dunn | Cuba, Wis. | James Alderson |
| Kremer, John | Grand Rapids, Mich. | Louis Barth |
| Krogh, Clarence Alfred | Mount Horeb, Wis. | E. Kremer |
| Ladwig, Walter Alvin | Appleton, Wis. | M. J. Rodermind |
| Larsen, Ralph Ludwig | Chicago | W. P. Verity |
| Lewison, Eli, B.A. | Vermillion, S.D. | C. L. Thorsgaard |
| Lincoln, Simon Emanuel | Jamestown, N. Y. | C. O. Young |
| Little, Wilbur Grant | Chicago | Faculty |
| Livermore, Walter Henry | Smith Center, Kan. | Faculty |
| Luhman, Frederick Walter | Manitowoc, Wis. | F. S. Luhman |
| Lund, Nels James | West Superior, Wis. | W. E. Ground |
| Maginn, Edward Francis | Chicago, | D. H. Cunnugh |
| Maple, James Brian, A.B. | Sullivan, Ind. | C. F. Briggs |
| Matthei, Philip Carl | Chicago, | Philip Matthei |
| Meade, Frank Keith | Salina, Kas. | Faculty |
| Meissner, Carl Herbert | Chicago | Faculty |
| Merriman, James Anthony | Selma, Ala., | F. J. DuBose |
| Merritt, Walter Dwight | Janesville, Wis. | C. F. Woods |
| Michell, George Washington | Gridley, Ill. | J. A. Taylor |
| Miller, Daniel Burton | Brazil, Ind. | Faculty |
| Morse, Samuel Smith, A.B. | Ripon, Wis. | A. Michell |
| Mueller, Edward William | Manitowoc, Wis. | F. O. Luhman |
| Murphy, Hugh Kingsbury | Sumner, Ill. | H. A. Murphy |
| McCaughey, Robert Stanton, A.B. | Hoopeston, Ill. | F. C. McCaughey |
| McCoy, John Hamilton | Beattie, Kas. | B. P. Hatch |
| McDonough, William Connolly | Woodburn, Ia. | Faculty |
| McGovern, James Eugene | Highland, Wis. | J. E. Mahoney |
| McIntyre, Edward Hubert | Streetor, Ill. | Faculty |
| McKirahan, Josiah Ralph | Norfolk, Va. | A. M. Anderson |
| McManus, William Francis | West Superior, Wis. | J. C. Adams |
| Nadeau, Alexander Thomas | Marinette, Wis. | Faculty |
| Naramore, Hal Sherman | Mason City, Ia. | Faculty |
| Olson, Carl Oscar | Holdredge, Neb. | Faculty |
| Oosterbeek, John Geddes | Chicago | Faculty |
| Osborne, John William | Rantoul, Ill. | Faculty |
| Ottersbach, Carl | Chicago | Faculty |
| Pearsoll, Robert Percy, A.B. | Port Byron, Ill. | Faculty |
| Peppler, Julius Frederick, | Muskegon, Mich. | Jacob Oostiney |
| Porterfield, William Lowrie | Cape Girardeau, Mo. | J. D. Porterfield |
| Potthoff, Ernest William | Oak Park, Ill. | L. C. Borland |
| Prasch, Herbert F. | Burlington, Wis. | W. A. Fulton |
| Pugh, Florin Harrison | West Lebanon, Ind. | Faculty |
| Quick, Edward William | Cordova, Ill. | W. R. Freek |
| Ramsey, James Wilson | | |
| Rhodes, Walter R. | Neal, Ill. | J. A. Baughman |
| Richards, Clarence Alfred | Rhinelander, Wis. | A. D. Daniels |
| Rickfort, William Otho, B.S. | Lake Mills, Wis. | W. A. Engsberg |
| Roost, Frederick H. | Jackson, Neb. | Faculty |
| Rosenow, Edward C. | Montana, Wis. | E. E. Ochsner |
| Ross, William Grant | Peotone, Wis. | E. E. Ochsner |
| Rowan, Edward James | Chicago | Faculty |
| Schmidt, Ernest | Marshfield, Wis. | Faculty |
| Schoenjahn, Walter LeRoy | West Side, Ia. | C. L. Patterson |
| Schultz, Albert | Sleepy Eye, Minn. | Faculty |
| Schurmeier, Frederick Charles, B.S. | Houbstadt, Ind. | H. Schurmeier |
| Schwendener, John Edward | Milwaukee, Wis. | J. Schwendener |
| Scott, Russell, Fanning, B.S. | Scott Land, Ill. | Faculty |
| Shaw, Archibald Otis | Helena, Mont. | W. H. Johnson |
| Shawgo, Kirk | Quincy, Ill. | J. B. Shawgo |
| Sheldon, Stuart Harris, B.S. | Madison, Wis. | C. S. Sheldon |
| Shuman, J. Raye | Chicago | J. A. Smith |
| Smead, Leslie Levant | Newton, Ia. | C. C. Smead |
| Spurgeon, Orville Elmer, B.S. | Muncie, Ind. | W. A. Spurgeon |
| Sim, William Alexander, Jr. | Galconda, Ill. | H. W. McCoy |
| Sokol, John Morrison, B.S. | Onslow, Ia. | J. W. Kirkpatrick |
| Sonnenschein, Joseph Benjamin | Chicago | E. B. Shumway |
| Spangenberg, WilliamCharles | Chicago | Faculty |
| Spaulding, William Folsom | Greeley, Col. | Faculty |
| Spengler, Albert Charles | Chicago | J. P. Pfeiffer |
| Strong, Charles David | Paxton, Ill. | E. M. Miller |
| Sweet, Robert Ballantine | Hampton, Ia. | L. E. Hacker |
| Sykes, Roy Wilkinson | Hamberg, Ia. | Arnold Jolly |
| Tarnutzer, Benjamin Charles | Portage, Wis. | B. C. Meacher |
| Taylor, Charles Henry, A.B. | Marquette, Mich. | F. H. Broughton |
| Thayer, Marion N. | Elnora, Ind. | H. H. Thayer |
| Thomsen and von Colditz, Gambon R. | Chicago | W.A. D.Montgomery |
| Tipton, Samuel Patterson | Ft. Scott, Kas. | J. B. Carver |
| Tormey, Thomas William, B.S. | Madison, Wis. | D. B. Collins |
| Tyrrell, John Boyd | Waterville, Minn. | O. M. Justice |
| Uyematsu, Tatsumaro, M.D. | Yokohama, Japan | Faculty |
| Van Nuys, Walter Crowe | Osawatomie, Kas. | J. D. Van Nuys |
| Vinson, Harry Warren | Ottumwa, Ia. | Faculty |
| Vork, John | Holland, Mich. | L. Barth |
| Wahrer, Carl W. | Ft. Madison, Ia. | C. F. Wahrer |
| Wallis, Frank Calvin, B.S. | Pickering, Mo. | W. M. Wallis |
| Warren, Bacil Augustine | Blackriver Falls, Wis. | Faculty |
| Waugh, Clifton Michael, B.S. | Fairfax, Mo. | Faculty |
| Welch, Joseph Michael | Madison, Wis | M. O'Malley |
| Wenglesky, Julius F. | Chicago | D. Lee Shaw |
| Wernham, James Ingersoll, B. S. | Marengo, Ill. | S. C. Wernham |
| West, John Charles | Chicago | S. S. Strayer |
| Wherritt, David Henry | Chicago | Faculty |
| Whitaker, Elias John, A.B. | Davenport, Ia. | Faculty |
| White, Arthur Weaver, B.L. | Paxton, Ill. | S. M. Wylie |
| Wood, Ernest, | Chicago | J. A. Patton |
| Woodyatt, Rollin Turner | Evanston, Ill. | Faculty |
| Yates, Walter Wilson, B.S. | Chicago | A. A. Knapp |
| Young, John Wray, B. S. | Bloomfield, Ia. | J.W. & H. C. Young |
| Young, Philip G. | Winterset, Ia. | Davisson & Davisson |

## SENIOR CLASS

| NAME. | RESIDENCE | PRECEPTOR. |
|---|---|---|
| Adair, Fred Lyman, B.S. | Anamosa, Ia. | L. J. Adair. |
| Adams, George Sheldon | Groton, S. D. | W. J. Evans |
| Alford, Edward True | Waterloo, Ia. | Faculty |
| Andrist, James Walter | Roscoe, Minn. | Faculty |
| Arzt, Herbert Lloyd, B.S. | St. Paul, Minn. | J. W. Truner |
| Ashcroft, Felix Edward | Ashcroft, S. D. | A. H. Bowman |
| Avery, Wilbur Minor | Dixon, Ill. | A. W. Chandler |
| Avey, Oliver Hammond, A.B. | Salt Lake City, Utah | D. A. Hoffman |
| Baker, Ernest Sumner, B.S. | Otterbein, Ind. | Faculty |
| Barnebee, James William | Fulton, Mich. | S. B. Snyder |
| Baumgartner, Moses Milton, B.S. | Orangeville, Ill. | E. R. Smith |
| Beeson, John Bradley, B.S. | Marshalltown, Ia. | Faculty |
| Beise, Rudolph Arthur | Mapleton, Minn. | Faculty |
| Bellows, William Samuel | Waukegan, Ill. | J. C. Foley |
| Bentley, Frederick James | Grand Island, Neb. | Faculty |
| Betts, Charles Allen, M.D. | Nickerson, Minn. | Faculty |
| Biggar, James Henry, Jr. | Chicago | Faculty |
| Blacklock, Samuel Scott | Vergennes, Ill. | D. J. Loring |
| Blatchford, Francis W. | Chicago | Faculty |
| Blatherwick, Wilfred Edwin, A.B. | Bock Valley, Ia. | Faculty |
| Book, Noah L. | Talmage, Kan. | Faculty |
| Botsford, Claude Winfield, M.D. | Chicago | Faculty |
| Bowen, Frederick Stuber | Eddyville, Ia. | T. E. Vance |
| Bower, Raymond Elmer, Ph.B. | Chillicothe, O. | Faculty |
| Boyd, David Hugh McIlrath | Wichita, Kan. | J. E. Oldham |
| Boyd, Frank Putnam | Lewiston, Minn. | C. A. Boyd |
| Breaks, Luther Zwingli | Crawfordsville, Ind. | H. E. Greene |
| Briggs, Stanley Jerome | Dodgeville, Wis. | Dr. Pearce |
| Broderick, David Edward | Kansas City, Mo. | Edwin Broderick |
| Brown, Oran Alfred | Lenox, Ia. | J. P. Scroggs |
| Brundage, Myron | Nora Springs, Ia. | Faculty |
| Bryant, William Vilas | Madison, Wis. | Philip Fox |
| Bunker, Ernest Isaiah | Frederick, S. D. | Faculty |
| Burnap, Willard Lathrop, B.S. | Clear Lake, Ia. | Dr. Charlton |
| Carney, Edward John | Watkins, N. Y. | A. L. Beahan |
| Carter, Joseph J. | Burlington Jct., Mo. | Faculty |
| Chenoweth, Oscar U. | Otterbein, Ind. | Faculty |
| Cleff, Oscar | Chicago | W. C. Sanford |
| Converse, Elliot Vanveltner | Palestine, Tex. | W. J. Jameson |
| Conway, Joseph Lafayette, M.D. | Chicago | Faculty |
| Corliss, Arthur V. | La Grange, Ill. | A. T. Corliss |
| Cossairt, William Santford | Potomac, Ill. | Faculty |
| Costello, Charles Anthony | Chicago | Faculty |
| Covert, Orra Fernando | Cameron, W. Va. | Faculty |
| Cragin, Henry B., Jr. | Evanston, Ill. | H. B. Cragin |
| Crawford, James Harry | Plymouth, Ill. | T. J. McDaniels |

| NAME | RESIDENCE | PRECEPTOR |
|---|---|---|
| Crow, John Staley | Mosca, Colo. | Faculty |
| Crowe, John Hall | West Superior, Wis. | Faculty |
| Crum, Philip Alfred, M.D | Chicago | Faculty |
| Darrow, Edward | West Superior, Wis. | L. N. Beebe |
| Daniels, Charles Edward | Marion, Ia. | G. E. Fullerton |
| Davidson, Eric Adolphus, A.B., M.D. | Chicago. | N. A. Graves |
| DeMott, Chester Wilmot | Independence, Kan. | J. T. Davis |
| Dickerson, Spencer Cornelius, B.S. | Austin, Tex. | J. F. McKinley |
| Donnelly, James Edmund | Terre Haute, Ind. | W. Schell |
| Dubs, Jesse James | Chicago | Faculty |
| Dunn, Arthur D. | Chicago | Faculty |
| Durkee, Alvaro C. | Pontiac, Ill. | J. B. Baker |
| Early, Charles DeWitt | Springfield, Ill. | J. N. Dixon |
| Early, Ralph Orr, | Albia, Ia. | H. C. Eschbach |
| Echols, Chester Madison | Oak Park, Ill. | Faculty |
| Eckdall, Frank Alberto | Emporia, Kan. | F. Foncannan |
| Edwards, Frank Hiram, M.D. | Evanston, Ill. | |
| Egan, Gregory Joseph | Beloit, Wis. | Faculty |
| Eignus, William T. | Forrest, Ill. | H. M. Hayes |
| Enochs, Edward Lincoln, B.S. | Chicago | V. Adamson |
| Ernst, George Reginald, A.B. | Watertown, Wis. | F. C. Werner |
| Evers, John | Bowling Green, O. | W. M. Fuller |
| Ewers, Joseph Bernard | Effingham, Ill. | J. N. Groves |
| Farnum, Charles George, B.S. | Elmwood, Ill. | J. F. Percy |
| Fischer, Martin Henry | Chicago | Faculty |
| Fisher, Frederick Alfred | Oak Park, Ill. | Faculty |
| Fisher, Jacob G. | Indianola, Ill. | F. M. Odbert |
| Forzley, Mulheim Abraham | Chicago | A. Forzley |
| Fox, John Sebastian | Chicago | W. N. Nolan |
| Francis, Lee Mastin, Ph.B. | Knoxville, Pa. | R. W. Francis |
| Franklin, Isaac Joseph Debobes, B.S. | Galesburg, Ill. | Faculty |
| Frazier, Harold Langford | Atchison, Kan. | Hubbard Lindley |
| Freeman, William Mostyn | Aurora, Ill. | Faculty |
| Fricke, Frederick Henry | Park Ridge, Ill. | G. H. Fricke |
| Frisbie, Charles Biglow, Ph.B. | Grinnell, Ia. | E. W. Clark |
| Fritsche, Alvin Gustave | Lomira, Wis. | F. M. Baker |
| Garlock, Lewis Franklin | Racine, Wis. | F. R. Garlock |
| Garvy, Andrew, Cosmas, A.B. | Chicago | Faculty |
| Gates, Eugene | Marengo, Ia. | Faculty |
| Gething, Joseph Wesley | Battle Creek, Mich. | Faculty |
| Ghent, Monroe M. | Carterville, Ill. | D. J. Loring |
| Gleason, Charles Mills | Whitewater, Wis. | Faculty |
| Gosling, John Anthony | Ottawa, O. | E. L. Tupper |
| Gould, Charles Webster, Jr., A.B. | Berea, Ky. | Faculty |
| Greeley, Paul Eber, Norman, M.D. | Waterman, Ill. | W. K. Farley |
| Green, Morton Kay | Middleton, Wis. | Faculty |
| Griffin, William Joseph | Clare, Ia. | M. F. Murray |
| Gulick, Walter Vose, A.B. | Chicago | Faculty |
| Haney, William Porter | Omaha, Neb. | Faculty |
| Hardie, Robert, Jr. | Chicago | Dr. Reynolds |
| Havens, Albert | Bushnell, Ill. | Faculty |
| Heffernan, Michael Thomas | Woonsocket, R. I. | Faculty |
| Hemingway, Willoughby Anson, A.B. | Oak Park, Ill. | C. E. Hemingway |
| Henry, Charles Augustus | Fostoria, O. | C. A. Henry, Sr. |
| Higgins, Otis C., M.D. | Lebanon, Ind. | H. N. Coons |
| Hill, Matthew M. | Edinburg, Ill. | Dickerson & Spicer |
| Hinde, John R. | Lewiston, Ill. | Faculty |
| Hinshaw, Otis Walter | Snow Hill, Ind. | B. S. Hunt |
| Hoffman, Clyde Bernard | Brazil, Ind. | Faculty |
| Hubbard, Frank Leroy | Virginia, Ill. | C. M. Hubbard |
| Hubbard, William Marvin, B.S. | Clark, Mo. | R. A. Woods |
| Jenkins, Charles Edwin, B.S. | Villisca, Ia. | J. H. Nicol |
| Johnson, Arthur Clark, A.B. | Monmouth, Ill. | F. E. Wallace |
| Johnson, Abel William, A.B. | Lindsborg, Kan. | Faculty |
| Johnson, George Monroe, Ph.B. | Maquoketa, Ia. | G. O. Johnson |
| Jones, Howard Gwynfil, Ph.B. | Van Wert, O. | Faculty |
| Jones, Noble Wiley, A.B. | Salt Lake City, Utah | P. E. Jones |
| Jungles, William Witry | Dubuque, Ia. | Faculty |
| Kalayjian, Dikran Sarkis, A.B. | Marash, Turkey | Faculty |
| Kaster, Thomas Joseph | Burlington, Ia. | J. Flemming |
| Keller, Alvin, B.S. | Attica, O. | Faculty |
| Kelly, James W., M.D. | Kalamazoo, Mich. | Dr. Osborne |

| NAME | RESIDENCE | PRECEPTOR |
|---|---|---|
| Kelley, Thomas Jefferson, B.S. | Cushing, Ia. | Faculty |
| Kilborn, K. E. | Petoskey, Mich. | Faculty |
| Kinsell, Benjamin | Galveston, Tex. | Faculty |
| Kirtley, Charles Luther, B.C.E. | Salmon, Idaho | Faculty |
| Klingberg, William August | Dillon, Kan. | Faculty |
| Knapp, Bleeker James | Evansville, Ind. | A. J. Knapp |
| Lakemeyer, Adolph | Chicago | Faculty |
| Lambert, Fred Ernest, M.D. | Cedar Falls, Ia. | A. J. Hobson |
| Lamping, Thomas James | Peoria, Ill. | Faculty |
| Lamerton, William Edward | Wyoming, Ia. | F. Horton |
| Landauer, Seward L. | Lincoln, Ill. | H. B. Brown |
| Lathrop, Homer Riale | Chicago | J. W. O'Neill |
| Lavin, John Michael | Chicago | D. J. Lynch |
| Leach, Roy Bertram | Joliet, Ill. | Faculty |
| Leeper, David Dwight | Phelps City, Mo. | Faculty |
| Lees, Alfred Tennyson | Mondovi, Wis. | Faculty |
| Liliencrantz, Guy Homer | Oakland, Cal. | Faculty |
| Lilly, Coral Adelbert | Hiawatha, Kan. | E. W. Bliss |
| Lind, Carl Olander | Chicago | C. M. Johnson |
| Linehan, Charles Mathias, A.M. | Dubuque, Ia. | G. A. Staples |
| Link, Francis Marion | Paris, Ill. | Faculty |
| Little, Palmer Jewett | Burlington, Ia. | G. B. Little |
| Littig, John Vincent | Davenport, Ia. | L. W. Littig |
| Lloyd, Claud Allen, A.B. | Chicago | Jos. F. Wyatt |
| Loomis, Charles Henry, A.B. | Hoge, Kan. | Faculty |
| Luckey, George Miller, A.B. | Vinton, Ia. | J. E. Luckey |
| Luton, Lionel Sinclair | St. Louis, Mo. | Faculty |
| Lyon, John Bates, Jr. | Harvard, Ill. | C. M. Johnson |
| McBride, William Linn | Decatur, Ill. | Faculty |
| McCamish, Edward Wallace | Minneola, Tex. | A. S. Cochrane |
| McCarthy, Harry H. | Dubuque, Ia. | J. F. McCarthy |
| McCarthy, Thomas Henry | Stoughton, Wis. | Faculty |
| McCaw, John Alexander, A.B. | Beloit, Wis. | Faculty |
| MacDonald, John Alexander | Dayton, O. | F. M. Michael |
| McGinnis, John Edward | | |
| McLean, Charles Raymond | Princeton, Ill. | Faculty |
| McMurry, Marvin Caldwell | Shelbina, Mo. | T. B. Owing |
| MacKenzie, Duncan Stewart | Wabasha, Minn. | P. N. Kelley |
| Mahony, James Burris | Chicago | Faculty |
| Malkin, Max | Chicago | Faculty |
| Marquardt, Edward William | Addison, Ill. | H. W. F. Bartells |
| Marsh, Nathan Walworth | | |
| Metzger, Jeremiah Herman | Oak Harbor, O. | Faculty |
| Miller, John Anthony | Loda, Ill. | C. A. Miller |
| Miller, George De Vere | Cadillac, Mich. | C. E. Miller |
| Monroe, Duncan Daniel | Sterling, Col. | Faculty |
| Morris, Arthur St. Clair, Jr. | Austin, Ill. | Faculty |
| Morrow, Hamilton Nesbit | Camptown, Pa. | A. D. Nesbitt |
| Mulky, Carl | Knoxville, Ia. | C. E. Halloway |
| Murray, Alfred Nicholas | Chicago | Faculty |
| Mustard, John Howard, A.B. | Abilene, Kan. | R. M. McShea |
| Nash, Edwin N. | Oak Park, Ill. | Faculty |
| Nicholson, James Murney | Chicago | Faculty |
| O'Dwyer, William | Dane, Wis. | Faculty |
| Ohlmacher, Joseph Christopher | Sycamore, Ill. | A. P. Ohlmacher |
| Oliver, Paul, B.S. | Chicago | Faculty |
| Olsen, Otto Rangvald | Winona, Minn. | F. R. Weston |
| O'Malley, Patrick Henry | Madison, Wis. | M. P. O'Malley |
| Otradovec, Joseph Henry Mary | Chicago | A. M. Corwin |
| Overholser, John D. | Coleta, Ill. | A. E. McBride |
| Owen, Roy LaFayette | Burlington, Wis. | A. W. Fulton |
| Pangburn, Harry Keeps | Maysville, Ky. | S. Pangburn |
| Park, Benjamin Franklin | Viola, Ill. | J. C. Frazier |
| Patton, Fred Pascoe | Chicago | Faculty |
| Pence, Roy William | Maquoketa, Ia. | D. N. Loose |
| Perkins, Ernest Della, M.D. | Ashland, Wis. | Faculty |
| Petit, Gilman Wilbur, M.D. | Chicago | C. D. Collins |
| Petrovitsky, John Carlos | Cedar Rapids, Ia. | J. M. Ristine |
| Phillips, Clark E. | Wrightstown, Wis. | M. E. Corbett |
| Pittman, James Harry | Roseville, Ill. | W. E. Pittman |
| Pixley, Charles, A.B. | Missoula, Mont. | Faculty |
| Porter, Robert Henry, Jr. | Glasgow, Ky. | R. H. Porter |
| Porter, William Arthur, B.S. | Malvern, Kan. | James Ball |
| Portis, Moses Milton, B.S. | Chicago | Faculty |
| Potter, George Washington, B.S. | Mitchell, S. D. | Faculty |
| Putman, Ola | Bucklin, Mo. | Faculty |
| Rassmusson, F. P. | Moorhead, Minn. | Faculty |
| Rathert, Edward Theodore | Marytown, Wis. | W. E. Minahan |
| Rayner, Herbert Wollesley | Chicago | A. J. Newell |

| NAME | RESIDENCE | PRECEPTOR |
|---|---|---|
| Read, Charles Francis, Ph.B. | Oswego, Ill. | Faculty |
| Rentz, Charles B. | Oxford, Ia. | E. A. Doty |
| Richards, Raymond George | Grand Rapids, Mich. | Faculty |
| Risley, Chester Howard | Cameron, Mo. | Faculty |
| Roach, James Joseph | Chicago | Faculty |
| Robbins, Charles Sumner | Peoria, Ill. | J. P. Pfeiffer |
| Robinson, Frank Crawford | Waitsburg, Wash. | Faculty |
| Rogers, Roy Francis | Springfield, Ill. | Ryan & Otis |
| Ross, Moses Hodge | Evansville, Ind. | P. Y. McCoy |
| Runkle, Herman Abraham, Ph.B. | Lisbon, Ia. | G. E. Crawford |
| Russell, S. Francis | Macomb, Ill. | S. Russell |
| Rutherford Leslie | Peoria, Ill. | Faculty |
| Sandbo, Thoralf Olai | La Crosse, Wis. | Faculty |
| Schmitt, Aaron Franklin | Mankato, Minn. | Faculty |
| Schmitt, Samuel Christian | Mankato, Minn. | Faculty |
| Schneider, Leo Elmer | Oregon, Ill. | Faculty |
| Schroeder, Arthur George | Chicago | Faculty |
| Schroeder, William | Dubuque, Ia. | J. F. McCarthy |
| Scott, Robert Case, M.D. | Baldwinsville, N. Y. | Faculty |
| Sheets, Horace | Oregon, Ill. | Faculty |
| Sidle, Charles Darwin | Van Wert, O. | Faculty |
| Slayton, Frederic Hosea, B.S. | Elmwood, Ill. | Faculty |
| Smith, Colonel Elmer, M.D. | Alma, Kan. | Dr. Karr |
| Smith, John Lawrence | Chicago | Faculty |
| Slevin, Richard Spaulding | Peoria, Ill. | J. M. Richmond |
| Sonnenschein, Robert | Chicago | Faculty |
| Soper, Alexander Coburn, Jr. | Chicago | Faculty |
| Souder, Ralph Witt | Larwill, Ind. | C. Souder |
| Sternberg, Joseph D., A.B. | Albany, Ore. | J. L. Hill |
| Stettauer, Joseph Lewis | Chicago | Faculty |
| Stinson, Bert Landon | Pontiac, Ill. | Faculty |
| Stokes, Arthur Charles, B.S., M.D. | Omaha, Neb. | Faculty |
| Storie, David Quincy, Jr. | Chariton, Ia. | J. H. Stanton |
| Strauss, Frederick B. | Bismarck, N. D. | Faculty |
| Stumm, Thomas Wesley, B.S. | Carterville, Ill. | D. J. Loring |
| Swedenburg, Francis Gustave | Maiden Rock, Wis. | Faculty |
| Swezey, Harry Newton | Marion, Ind. | T. C. Kimball |
| Tobin, John Robert | Gilberts, Ill. | Dr. James |
| Tooker, Robert N. | | |
| Trankle, Herbert Milo | Bloomer, Wis. | E. H. Rogers |
| Trapp, Albert Rubly | Lincoln, Ill. | A. M. Sargent |
| Trommald, Gunder Theodoric | Tacoma, Wash. | Faculty |
| Tubbs, Ray Burney | Emerson, Ia. | W. S. Williamson |
| Tucker, Francis Fisher, B.S. | Lincoln, Neb. | Faculty |
| Uehren, Wilber Andrew | Aurora, Ill. | Faculty |
| Uppendahl, William John | Dalton City, Ill. | Faculty |
| Van Dyke, George Henry | Chicago | L. A. Claussen |
| Van Kirk, Frank Walter, B.S. | Janesville, Wis. | Faculty |
| Vaughan, Elmer E., M.D. | Chicago | Faculty |
| Vaughan, Herbert Games, | Chicago | Faculty |
| Wassweiler, Charles Semour, M.D. | Pigeon Falls, Wis. | Dr. Hill |
| Weber, Hymen Lawrence, A.B. | Springville, N. Y. | Faculty |
| Weber, Ernest Owen | Vaysarano, Neb. | Faculty |
| Weber, Siewert Jacob | Fond du Lac, Wis. | A. H. Weber |
| Weible, Ralph Emerson | Weible, N. D. | H. H. Critchfield |
| West, Claudius Wilson, B.S. | Galesburg, Ill. | G. E. Luster |
| Wherry, William Buchanan, A.B. | River Forest, Ill. | Faculty |
| White, Carlos Moulton | Alexandria, Minn. | Faculty |
| Whitsitt, Wilson Henry B.S. | Preëmption, Ill. | Faculty |
| Wilder, Loren | Gridley, Ill. | J. E. Taylor |
| Wilkinson, Hugh | Seneca, Kan. | Faculty |
| Williams, Frank Spalding, B.S. | Villisca, Ia. | Faculty |
| Wine, Jacob Wilford, M.D. | Chicago | A. S. Rosenberg |
| Wolfsohn, M. E. | | |
| Wood, Frank Montgomery, Jr., A.B. | Franklin, O. | F. M. Wood |
| Woodruff, Claud Whiting | Elgin, Minn. | Faculty |
| Wright, William Albert | Laramie, Wyo. | T. J. Stiver |
| Zaun, Jacob Joseph | Pewaukee, Wis. | George S. Love |
| Zaun, John Joseph | Pewaukee, Wis. | George S. Love |

## SUMMARY

| | |
|---|---|
| Freshman Class | 123 |
| Sophomore Class | 230 |
| Junior Class | 215 |
| Senior Class | 268 |
| Post Graduates and Specials | 219 |
| Total | 1055 |

The University of Chicago
FOUNDED BY JOHN D. ROCKEFELLER

Recorder's File Do not take away.

BULLETIN OF INFORMATION

VOL. I JUNE 1901 NO. 2

# THE COURSES IN MEDICINE

## AND PREPARATORY TO MEDICINE

### TABLE OF CONTENTS

Official Publications of the University of Chicago 2
Officers of Administration 3
Administrative Board of Medical Affairs 3
Officers of Medical Instruction and Administration 4
  Instructors Appointed for the Summer Quarter, 1901 7
  Fellows Appointed for 1901-1902 7
Introductory Statement 8

Laboratories, Equipment, and Libraries:

  The Hull Biological Laboratories 9
  The Kent Chemical Laboratory 10
  The Libraries 10

Admission to the Medical Course:

  General Regulations 10
  Requirements for Admission 12
  Admission to Advanced Standing in the Medical Course 14

General Information:

  Routine of Entrance 14
  Fees for Matriculation, Tuition, Etc. 15
  Rooms, Board, and General Expenses 16
The Quarter System 16

The Work of the Medical Course:

  Outline of the Course.—Definition of Major and Minor.—The Curriculum.—Arrangement of Courses for Six Quarters.—Courses in the Summer Quarter (1901) 17

The Courses of Instruction:

  The Department of Chemistry 19
  The Department of Zoölogy 21
  The Department of Anatomy 22
  The Department of Physiology (Physiological Chemistry and Pharmacology) 25
  The Department of Neurology 27
  The Department of Pathology and Bacteriology 28
Graduate Courses in Medicine for Physicians and Advanced Students 29
The Degrees of S.B., A.B., and Ph.B. 30
Requirements for Graduation in Rush Medical College 31
Fellowships and Scholarships 31
Fellowships, Hospital Internes, and Prizes (Rush Medical College) 33
Medical Societies 34
Calendar for the Year 1901-1902 35
Map of the Immediate Vicinity of the University 36

PUBLISHED FOUR TIMES A YEAR
IN THE MONTHS OF MAY, JUNE, JULY, AND OCTOBER, BY
THE UNIVERSITY OF CHICAGO
Fifty-Eighth Street and Ellis Avenue
CHICAGO

## *OFFICIAL PUBLICATIONS OF THE UNIVERSITY OF CHICAGO.*

**The Annual Register** is issued about July 1 of each year. It contains a full statement of the organization of the University, the Faculties, the courses offered during the year, lists of students, requirements for admission, regulations governing the various schools and colleges of the University, and a historical statement concerning the University clubs, organizations, etc. Price, 75 cents.

**The University Record** is published weekly, on Fridays. Each weekly issue consists of a single sheet containing a calendar of Announcements of University events for the coming week. A monthly number of eight pages or more contains the convocation addresses, the President's quarterly statements, records of actions of University ruling bodies, news and notes of the faculties and alumni, and accounts of the various occurrences of official University life. Price $1.00 a year, 5 cents a copy.

**Circulars and Bulletins of Information** of the following Schools and Colleges of the University give information concerning admission, the work which may be pursued, the requirements for degrees, etc., in the several Schools and Colleges mentioned and will be sent on application.

**The Circular of Information of the Graduate Schools in the Departments of Arts, Literature, and Science.**

**The Circular of Information of the Divinity School.**

**The Circular of Information of the School of Education.**

**The Circular of Information of the Colleges in the Departments of Arts, Literature and Science.**

**The Circular of Information of the College of Commerce and Administration.**

**The Circular of Information of University College** (the college courses conducted by the University near the center of the city of Chicago).

**The Annual Announcements** contain lists of courses of instruction offered in the various schools and colleges for the current year.

**The Bulletin of Information on the Courses in Medicine and Preparatory to Medicine** contains information concerning medical instruction in the University (the first two years' work in medicine).*

**The Circulars of Information of the University Extension Division** contain lists of courses and lectures offered, and a statement of correspondence work.

**Departmental Programmes,** issued by the various departments of instruction, give full details concerning the work of the individual departments.

**The Calendar of the Morgan Park Academy** contains information concerning courses of study, expenses, etc., in the Academy. This Calendar will be sent on application to the Dean of the Academy, Morgan Park, Ill.

---

*The Annual Announcements of Rush Medical College (affiliated with the University) contain full information in regard to the Junior and Senior years of the medical course, requirements for admission to advanced standing, fees, cost of attendance, etc. Application for the same may be made to Rush Medical College, Chicago, Ill.

## OFFICERS OF ADMINISTRATION.

The President of the University, WILLIAM RAINEY HARPER.
The University Recorder, GEORGE STEPHEN GOODSPEED.
The University Chaplain, CHARLES RICHMOND HENDERSON.
The University Comptroller, HENRY A. RUST.
The University Registrar, THOMAS WAKEFIELD GOODSPEED.
The Dean of Medical Students, JOHN MILTON DODSON.

## ADMINISTRATIVE BOARD OF MEDICAL AFFAIRS.

THE PRESIDENT, *Chairman.*

The Recorder, *ex officio.*
Dean JOHN MILTON DODSON, *ex officio.*
Dean MARION TALBOT, *ex-officio.*

Professor CHARLES OTIS WHITMAN.
Professor ALBERT A. MICHELSON.
Professor WALTER STANLEY HAINES.
Professor CHARLES R. BARNES.
Professor HENRY HERBERT DONALDSON.
Professor JACQUES LOEB.
Professor LUDVIG HEKTOEN.
Professor JOHN ULRIC NEF.
Professor LEWELLYS F. BARKER.
Associate Professor CHARLES BENEDICT DAVENPORT.
Associate Professor EDWIN OAKES JORDAN.
Assistant Professor FELIX LENGFELD.
Assistant Professor JULIUS STIEGLITZ.
Assistant Professor FRANK RATTRAY LILLIE.
Assistant Professor ELIAS POTTER LYON.
Assistant Professor ALBERT PRESCOTT MATHEWS.
Dr. DAVID JUDSON LINGLE.
Dr. ALBERT CHAUNCEY EYCLESHYMER.
Dr. ROBERT ANDREWS MILLIKAN.
Mr. DONALD JOHN ARMOUR.
Dr. JOSEPH E. RAYCROFT.
Dr. LAUDER WILLIAM JONES.
Dr. JOSEPH MARSHALL FLINT.
Dr. GIDEON WELLS.
Dr. PRESTON KYES.
Dr. MARTIN FISCHER.

# OFFICERS OF MEDICAL INSTRUCTION AND ADMINISTRATION.*

**William Rainey Harper**, Ph.D., D.D., LL.D., President of the University.
*Lexington av. and 59th st.*

A.B., Muskingum College, 1870; Ph.D., Yale University, 1875; Principal of Masonic College, Macon, Tenn., 1875–6; Tutor in Preparatory Department, Denison University, 1876–9; Principal of same, 1879–80; Professor of Hebrew and the Cognate Languages, Baptist Union Theological Seminary, 1879–86; Principal of Chautauqua College of Liberal Arts, 1885–91; Principal of the Chautauqua System, 1891–8; Professor of the Semitic Languages, Yale University, 1886–91; Woolsey Professor of Biblical Literature, *ibid.*, 1889–91; D.D., Colby University, 1891; LL.D., University of Nebraska, 1893.

**Charles Otis Whitman**, Ph.D., LL.D., Professor and Head of the Department of Zoölogy.
*223 E. 54th st.*

A.B., Bowdoin College, 1868, and A.M., 1871; Principal of Westford Academy, 1769–72; Master in English High School, Boston, 1872; Ph.D., University of Leipzig, 1878; Fellow of Johns Hopkins University, 1879; Professor of Zoölogy, Imperial University of Japan, 1880–1; Naples Zoölogical Station, 1882; Assistant in Zoölogy, Harvard University, 1883–5; Director of the Allis Lake Laboratory, 1886–9; LL.D., University of Nebraska, 1894; Member of the National Academy, Foreign Member of the Linnaean Society, Director of the Marine Biological Laboratory, Wood's Holl, Mass., since 1888; Professor of Zoölogy, Clark University, 1889–92; Editor of the *Journal of Morphology*, the *Biological Bulletin*, and the *Biological Lectures.*

**Nicholas Senn**, M.D., Ph.D., LL.D., Professorial Lecturer on Military Surgery.

M.D., Chicago Medical College, 1868; Student at University of Munich, 1878; Ph.D., University of Wisconsin, 1887; LL.D., Lake Forest University, 1892, and Jefferson Medical College, 1899; Professor of Surgery, College of Physicians and Surgeons, Chicago, 1885–8; Professor of the Principles of Surgery and Surgical Pathology, 1888–90; Professor of the Practice of Surgery and Clinical Surgery, 1890–8; President Wisconsin State Medical Society, 1878; President American Surgical Association, 1893; President American Medical Association, 1897; Founder and President of the American Association of Military Surgeons, 1893; Professor of Surgery, Chicago Policlinic, 1890—; Surgeon in Chief, St. Joseph's Hospital, 1890–; Attending Surgeon Presbyterian Hospital, 1890–; Honorable Member of the Academy of Medicine, Mexico; Honorable Fellow, College of Physicians, Philadelphia; Honorable Member of the Medical Society, Edinburgh; Corresponding Member of the Harveian Society, London; Life Member of the German Congress of Surgeons; Surgeon of the Sixth Army Corps, and Chief of the Operating Staff with the United States Army in the Field; *Nicholas Senn* Professor of Surgery, Rush Medical College.

**Ephraim Fletcher Ingals**, A.M., M.D., Professorial Lecturer on Medicine.

M.D., Rush Medical College, 1871; A.M., (Old) University of Chicago, 1879; Assistant Professor of Materia Medica, Rush Medical College, 1871–3; Lecturer on Diseases of the Chest and Physical Diagnosis, *ibid.*, Spring Course, 1874–83; Professor of Laryngology, *ibid.*, 1883–90; Professor of Laryngology and Practice of Medicine, *ibid.*, 1890–3; Professor of Laryngology, and Diseases of the Chest, *ibid.*, 1893–8; Registrar, *ibid.*, 1891–8; Professor of Laryngology and Rhinology, Chicago Policlinic, 1890–7; Professor of Diseases of the Throat and Chest, Northwestern Woman's Medical School, 1879–98; Ex-President of American Laryngological Association; Ex-President of Illinois State Medical Society; Ex-President of American Climatological Association; President Chicago Laryngological and Climatological Society, 1899; Professor of Diseases of the Chest, Throat, and Nose, Rush Medical College.

**Albert Abraham Michelson**, Ph.D., Professor and Head of the Department of Physics.
*220 E. 60th st.*

Midshipman, U. S. Naval Academy, 1873; Instructor in Physics and Chemistry, U. S. Naval Academy, 1875–9; Nautical Almanac Office, Washington, 1880; University of Berlin, 1880; University of Heidelberg, 1881; College de France, École Polytechnique, 1882; Professor of Physics, Case School of Applied Science, Cleveland, O,, 1883–9; Corresponding Member, British Association for the Advancement of Science, 1884; Associate Fellow of American Academy of Arts and Sciences, 1885; Ph.D. (Honorary), Western Reserve University, 1886; and Stevens Institute, 1887; Vice-President, American Association for the Advancement of Science, 1887; Member of National Academy of Sciences, 1888; Rumford Medal, 1889; Professor of Physics, Clark University, 1889-92; Bureau International des Poids et Mesures, 1892–3; Member, Société Française de Physique, 1893; Fellow, Royal Astronomical Society, 1896; Foreign Member, Société Hollandaise des Sciences, 1897; Honorary Member, Cambridge Philosophical Society, 1897; Member (for the United States) of the International Committee of Weights and Measures, 1897; Lowell Lecturer, 1899; Member correspondant de l'Académie des sciences, Paris, 1900; Grand Prix, Exposition generale de Paris, 1900.

**Walter Stanley Haines**, A.M., M.D, Professorial Lecturer on Toxicology.

Student at the Massachusetts Institute of Technology, 1869–72; M.D., Chicago Medical College, 1873; Professor of Chemistry, *ibid.*, 1873: Student in Paris and London, 1875–6; Professor of Chemistry and Toxicology, Rush Medical College, 1876–85; Professor of Chemistry, Pharmacy, and Toxicology, *ibid*,, 1885—; A.M., Monmouth College, 1881.

**Henry Herbert Donaldson**, Ph.D., Professor and Head of the Department of Neurology.
*5740 Woodlawn av.*

A.B., Yale College, 1879; Sheffield Scientific School, 1880; College of Physicians and Surgeons, New York, 1881; Fellow of Johns Hopkins University, 1881–3; Instructor in Biology, *ibid.*, 1883–4; Ph.D., *ibid.*, 1885; Associate in Psychology *ibid.*, 1887–8; Assistant Professor of Neurology, Clark University, 1889–92; Professor of Neurology, The University of Chicago, 1892–6; Dean of the Ogden (Graduate) School of Science, *ibid.*, 1892–8.

**Jacques Loeb**, M.D., Professor and Head of the Department of Physiology. *5754 Woodlawn av.*

Abiturienten Examen, Berlin, 1880; M.D., University of Strassburg, 1884; State Examination, Strassburg, 1885; Assistant in Physiology, University of Würzburg, 1886–8; Assistant in Physiology, University of Strassburg, 1888–90; Biological Station at Naples, 1889–91; Associate in Biology, Bryn Mawr College, Bryn Mawr, Pa., 1891–2; Assistant Professor of Physiology and Experimental Biology, the University of Chicago, 1892–5; Associate Professor, *ibid.*, 1895–1900; Professor, *ibid.*, 1900–1901; Professor of Physiology, Rush Medical College, 1900—.

**John Milton Dodson**, Professorial Lecturer of Medicine and Dean of Medical Students.

A.B., University of Wisconsin, 1880; A.M. (in course), *ibid.*, 1887; M.D., Rush Medical College, 1882, and Jefferson Medical College, 1883; Lecturer on Anatomy and Demonstrator, Rush Medical College, 1889–93; Professor of Physiology and Demonstrator of Anatomy, *ibid.*, 1893–4; Professor of Physiology and Histology, *ibid.*, 1894–1900; Professor of Medicine, *ibid.*, 1900—; Junior Dean, *ibid.*, 1898–9; Dean, *ibid.*, 1899—; Professor of Diseases of Children, Northwestern University Woman's Medical School, 1893–7.

---

* With the exception of the President, the names in each group are arranged in the order of collegiate seniority.

Frank Billings, S.M., M.D., Professorial Lecturer on Medicine.

M.D., Chicago Medical College, 1881; S.M., Northwestern University, 1890; Interne, Cook County Hospital, 1881–2; Student in Vienna, 1885–6; Professor of Medicine, Northwestern University Medical School, 1891–8; Attending Physician to St. Luke's, Mercy, and the Cook County Hospitals; President of Chicago Medical Society, 1890; Professor of Medicine and Dean, Rush Medical College, 1898—.

Arthur Dean Bevan, M.D., Professorial Lecturer on Surgery.

Student at Yale, 1877–80; M.D., Rush Medical College, 1883; Professor of Anatomy in the Oregon State University, 1886–7; Professor of Anatomy, Rush Medical College, 1887–; President Chicago Medical Society, 1899; Surgeon of Presbyterian Hospital.

Ludvig Hektoen, M.D., Professor and Head of the Department of Pathology and Bacteriology.

A.B., Luther College, Decorah, Ia., 1883; M.D., College of Physicians and Surgeons, Chicago, 1887; Student in Prague, Berlin, Vienna, and Sweden, 1890, 1896, 1897; Lecturer on Pathology, Rush Medical College, 1890–2; Physician to the Coroner's Office, 1890–4; Professor of Pathology, College of Physicians and Surgeons, 1892–4; Professor of Morbid Anatomy, Rush Medical College, 1895–8; Professor of Pathology, *ibid.*, 1898—; President of Chicago Pathological Society, 1898; Pathologist to the Cook County Hospital, 1889—.

John Ulric Nef, Ph.D., Professor and Head of the Department of Chemistry.
*6018 Stony Island av.*

A.B., Harvard University, 1884; Kirkland Fellow, Harvard University, 1884–7; Ph.D., University of Munich, 1886; Professor of Chemistry and Director of the Chemical Laboratory, Purdue University, 1887–9; Assistant Professor of Chemistry, and Acting Head of the Chemical Laboratory of Clark University, 1889–92; Professor of Chemistry, the University of Chicago, 1892–6.

Lewellys Franklin Barker, M.B., Professor and Head of the Department of Anatomy.
*The Quadrangle Club.*

M.B., University of Toronto. 1890; Licentiate College of Physicians and Surgeons of Ontario, 1890; House Office, Toronto General Hospital, 1890–1; Assistant Physician, Johns Hopkins Hospital, 1891–2; Fellow in Pathology, Johns Hopkins University, 1892–4; Associate in Anatomy, *ibid.*, 1894–7; Student, University of Leipzig, 1895; Assistant resident Pathologist, Johns Hopkins Hospital, 1894–9; Associate Professor of Anatomy, Johns Hopkins University, 1897–9; Johns Hopkins Medical Commissioner to the Philippine Islands, 1899; Associate Professor of Pathology, Johns Hopkins University, 1899–1900; Resident Pathologist, Johns Hopkins Hospital, 1899–1900; Professor of Anatomy, Rush Medical College, 1900—.

Marion Talbot, A.M., Associate Professor of Sanitary Science; Dean of Women. *Green Hall.*

A.B., Boston University, 1880, and A.M., 1882; S.B., Massachusetts Institute of Technology, 1888; Lecturer, Lasell Seminary, 1888–91; Instructor in Domestic Science, Wellesley College, 1890–2; Assistant Professor of Sanitary Science, the University of Chicago, 1892–5.

Alexander Smith, Ph.D., Associate Professor of General Chemistry. *The Quadrangle Club.*

S.B., University of Edinburgh, 1886; Ph.D., University of Munich, 1889; Assistant in Chemistry, University of Edinburgh, 1889–90; Professor of Chemistry and Mineralogy, Wabash College, 1890–4; Assistant Professor, the University of Chicago, 1894–8.

Charles Benedict Davenport, Ph.D., Associate Professor of Zoölogy and Embryology.
*5725 Monroe av.*

S.B., Brooklyn Polytechnic Institute, 1886; A.B., Harvard University, 1889; A.M., *ibid.*, 1890; Ph.D., *ibid.*, 1892; Assistant in Zoölogy, Harvard University, 1888–91. Instructor, *ibid.*, 1891–9; Director, Biological Laboratory of the Brooklyn Institute of Arts and Sciences, 1898—; Assistant Professor of Zoölogy, the University of Chicago, 1899–1901.

Edwin Oakes Jordan, Ph.D., Associate Professor of Bacteriology. *5720 Woodlawn av.*

S.B., Massachusetts Institute of Technology, 1888; Chief Assistant Biologist to the Mass. State Board of Health, 1888–90; Lecturer on Biology, Mass. Institute of Technology, 1889–90; Fellow in Morphology, Clark University, 1890–2; Ph.D., Clark University, 1892; Associate in Anatomy, the University of Chicago, 1892–3; Instructor, *ibid.*, 1893–5; Assistant Professor of Bacteriology, *ibid.*, 1895–1900; at the Pasteur Institute, Paris, 1896.

Felix Lengfeld, Ph.D., Assistant Professor of Inorganic Chemistry. *5763 Madison av.*

Ph.G., University of California (College of Pharmacy), 1880; Fellow in Johns Hopkins University, 1887–8; Ph.D., Johns Hopkins University, 1888; Professor of Chemistry and Assaying, South Dakota School of Mines, 1890–1; Instructor in Chemistry, University of California, 1891–2; Docent in Chemistry, the University of Chicago, 1892–3; Tutor in Chemistry, *ibid.*, 1893–4; Instructor in Chemistry, *ibid.*, 1894–5.

Julius Stieglitz, Ph.D., Assistant Professor of Chemistry. *245 E. 61st st.*

A.M., and Ph.D., University of Berlin, 1889; University Scholar, Clark University, 1890; Chemical Laboratory, Detroit, Mich., 1890–2: Docent in Chemistry, the University of Chicago, 1892–3; Assistant, *ibid.*, 1893–4; Instructor in Chemistry, *ibid.*, 1894–7.

Frank Rattray Lillie, Ph.D., Assistant Professor of Zoölogy and Embryology. *The University.*

A.B., University of Toronto, 1891; Fellow, Clark University, 1891–2; Fellow in Zoölogy, the University of Chicago; 1892–3; Reader, *ibid.*, 1893–4; Instructor in Zoölogy, University of Michigan, 1894–9; Professor of Biology, *John P. Girard* Chair of Natural History, Vassar College, 1899–1900; Head of Department of Embryology, Marine Biological Laboratory at Wood's Holl, 1893—.

Elias Potter Lyon, Ph.D., Assistant Professor of Physiology.

S.B., Hillsdale College, 1891; A.B., *ibid.*, 1892; Assistant in Biology, *ibid.*, 1890–2; Instructor, Harvard School, Chicago, 1892–6; Biologist, Cook Greenland Expedition, 1894; Graduate Student, the University of Chicago, 1894–7; Student, Marine Biological Laboratory, Summer, 1895; Instructor, South Side Academy, Chicago, 1896–7; Fellow, the University of Chicago, 1896–7; Ph.D., *ibid.*, 1897; Instructer, *ibid.*, Summer Quarter, 1897; Instructor, Bradley Polytechnic Institute, 1897–1901; Assistant Professor of Physiology, Rush Medical College, 1900—.

Albert Prescott Mathews, Ph.D., Assistant Professor of Physiological Chemistry.

S.B., Massachusetts Institute of Technology, 1892; Assistant in Biology, *ibid.*, 1892–3; Fellow in Biology, Columbia University, 1893–5; Student in Cambridge, England, and Marburg, Germany, 1895–7; Occupant of Columbia University Table, Naples Zoölogical Station, 1896; Honorary Fellow, Columbia University, 1897–8; Ph.D., *ibid.*, 1898; Assistant in Physiology, Harvard Medical School; Instructor in Physiology, Tuft's College Medical School, 1898–9; Assistant Professor of Physiology, *ibid.*, 1899–1900; Instructor in Physiology, Harvard Medical School, 1900–1901

**David Judson Lingle**, Ph,D., Instructor in Physiology. *360 E. 51st st.*

S.B., University of Chicago, 1885; Assistant in Science, Beloit College, 1986-7; Graduate Student in Johns Hopkins University, 1887-9; Assistant Professor of Biology, Tulane University, New Orleans, La., 1889-90; Graduate Student, Johns Hopkins, 1890-1; Fellow in Biology, *ibid.*, 1891-2; Ph.D., *ibid.*, 1892; Reader in Biology, the University of Chicago, 1892-3; Assistant in Physiology, 1893-4.

**Charles Manning Child**, Ph.D., Instructor in Zoölogy. *6024 Ellis av.*

Ph.B., Wesleyan College, 1890; S.M., *ibid.*, 1892; Assistant in Zoölogy and Botany, *ibid.*, two years; Ph.D., Leipzig, 1894; Naples Zoölogical Station, 1894; Fellow in Zoölogy, the University of Chicago, 1894-5; Assistant, 1895-7; Associate, *ibid.*, 1897-8; Instructor, Marine Biological Laboratory, Wood's Holl, Summer 1895-7.

**Albert Chauncey Eycleshymer**, Ph.D., Instructor in Anatomy. *7120 Rhodes av.*

Assistant in Animal Morphology, 1889, and Botany, 1890, University of Michigan; Chief Assistant to the Director of the Allis Lake Laboratory, 1890-1; S.B., University of Michigan, 1891; University Fellow in Biology, Princeton, 1891; Fellow in Animal Morphology, Clark University, 1891-2; Investigator, Marine Biological Laboratory, Wood's Holl, Summer of 1892; Fellow in Biology, the University of Chicago, 1892-3; Assistant, *ibid.*, 1893-5; Ph.D., *ibid.*, 1894; Associate in Anatomy, *ibid.*, 1895-7; Student in the University of Cambridge, 1895-6; Lecturer on Human Embryology, Rush Medical College, 1897-8; Assistant Professor of Human Embryology, *ibid.*, 1898-9.

**Donald John Armour**, A.B., M.B., Instructor in Anatomy. *The Quadrangle Club.*

A.B., University of Toronto, 1891; M.B., *ibid.*, 1894; Member, College of Physicians and Surgeons, Ontario, 1894; Interne, Toronto General Hospital, 1894-5; M.R.C.S. (England), L.R.C.P. (London), 1896; M.R.C.P. (London), 1897; F.R.C.S. (England) 1900; Senior Demonstrator, Department of Anatomy, University College, London, 1898-1900; Instructor in Anatomy, Rush Medical College, 1900.

**John Charles Hessler**, Ph.D., Instructor in Chemistry. *5756 Madison av.*

Teacher of Science, Lake High School, Chicago, 1890-2; Instructor in Chemistry, Hyde Park High School, Chicago, 1892-9; A.B., the University of Chicago, 1896; Ph.D., *ibid.*, 1899.

**Lauder William Jones**, Ph.D., Associate in Chemistry. *573 E. 62d st.*

A.B., Williams College, 1892; Fellow in Chemistry, the University of Chicago, 1895-7; Ph.D., *ibid.*, 1897; Assistant in Chemistry, *ibid.*, 1897-1900.

**Joseph Marshall Flint**, A.M., M.D., Associate in Anatomy. *5825 Kimbark av.*

S.B., the University of Chicago, 1895; Student, Munich, 1896; Assistant in Anatomy, the University of Chicago, Summer 1898; Assistant, the Johns Hopkins University Medical Commission to the Philippines, 1899; A.M., Princeton University, 1900; M.D., Johns Hopkins University, 1900; Appointed House Officer, Johns Hopkins Hospital, 1900; University of Leipzig, Summer Semester, 1900.

**Harry Gideon Wells**, A.M., M.D., Associate in Pathology.

Ph. B., Yale University, 1895; A.M., Lake Forest University, 1897; M.D., Rush Medical College, 1898; Interne, Cook County Hospital, 1898-9; Fellow in Pathology, Rush Medical College, 1900; Assistant and Instructor in Pathology, *ibid.*, 1901.

**Preston Kyes**, A.M., M.D., Associate in Anatomy. *The Quadrangle Club.*

A.B., Bowdoin College, 1896; A.M., *ibid.*, 1900; M.D., Johns Hopkins University, 1900; Associate in Anatomy, Rush Medical College, 1900.

**Martin Henry Fischer**, M.D., Associate in Physiology.

M.D., Rush Medical College, 1901; Assistant in Pathology, *ibid.*, 1898-1901; Fellow in Pathology, *ibid.*, 1900; Holmes' Scholarship at Wood's Holl, *ibid.*, 1900-1; Assistant in Physiology, *ibid.*, 1900.

**Henry Chalmers Biddle**, Ph.D., Assistant in General Chemistry. *5811 Jackson av.*

S.B., Monmouth College, 1891; Ph.D., the University of Chicago, 1900; Instructor in Chemistry and Physics, Monmouth College, 1891-2; Professor of Chemistry and Physics, *ibid.*, 1892-3; Graduate Student, the University of Chicago, 1896-7; Fellow in Chemistry, *ibid.*, 1897-9; Professor of Chemistry, Maryville College, 1899-1900.

**Irving Hardesty**, Ph.D., Assistant in Neurology.

A.B., Wake Forest College (N. C.) 1892; Principal, Wakefield Academy, 1892-3; Graduate Student (Biology), the University of Chicago, 1893-5; Assistant in Physiology, Marine Biological Laboratory, Wood's Holl, Mass., 1895; Assistant in Biology, State University of Missouri, 1895-6; Fellow in Neurology, the University of Chicago, 1896-9; Assistant in Neurology, *ibid.* (summers), 1897-9; Ph.D., *ibid.*, 1899; Assistant in Neurology and Anatomy, *ibid.*, 1899-1901.

**Dean De Witt Lewis**, A.B., M.D., Assistant in Anatomy. *510 Congress st.*

A.B., Lake Forest University, 1895; M.D., Rush Medical College, 1899; Interne, Cook County Hospital, June 1, 1899-December 1, 1900; Assistant in Anatomy, Rush Medical College, 1900.

**William Buchanan Wherry**, A.B., M.D., Assistant in Bacteriology.

A.B., Washington and Jefferson College, 1897; M.D., Rush Medical College, 1901.

Note.—There are a number of vacancies in the list of Assistants to be filled by appointments to be made during the Summer Quarter.

## INSTRUCTORS APPOINTED FOR THE SUMMER QUARTER, 1901.

**Herbert Newby McCoy**, Ph.D., Associate Professor of Chemistry, University of Utah, Salt Lake City, Utah.

S.B., Purdue University, 1892; Assistant in Chemistry, *ibid.*, 1892–3; Chemist for Swift & Company, Chicago, 1893–4; Professor of Chemistry and Physics, Fargo College, 1894–6; Fellow in Chemistry, the University of Chicago, 1896–8; Ph.D., *ibid.*, 1898; Assistant in Chemistry, *ibid.*, 1898–9.

**Daniel Graisberry Revell**, M.B., Assistant in Anatomy.

A.B., University of Toronto, 1894; M.B., *ibid.*, 1900; Member of the Royal College of Physicians and Surgeons, Ontario, 1900.

**Elliott Rowland Downing**, S.M., Assistant in Zoölogy.

S.B., Albion College, 1889; S.M., *ibid.*, 1894; Instructor in Science and Mathematics in Ft. Payne Academy, 1890–1; Instructor in Science and German in Beloit College, 1891–6; Superintendent, Brooklyn Disciplinary Training School for Boys, 1896–8; Graduate Student, the University of Chicago, 1899–1900; Fellow in Zoölogy, *ibid.*, 1900–1.

**Shinkishi, Hatai**, Assistant in Neurology.

Graduate of the Imperial University of Tokio, Japan, 1897; Assistant in Biology, First High School of Tokio, Japan, 1898–9; Fellow, the University of Chicago, 1899–1900, 1901–2; Instructor, University of Cincinnati, 1900–1.

## DEANS OF AFFILIATED MEDICAL INSTITUTIONS.

**John Milton Dodson**, Dean, Rush Medical College. *Chicago.*

(See p. 4.)

**Frank Billings**, Dean, Rush Medical College. *Chicago.*

(See p. 5.)

**Frederic Shurtleff Coolidge**, Dean, Rush Medical College. *Chicago.*

A.B., Harvard, 1887; M.D., Harvard Medical School, 1891, and Rush Medical College, 1897; Lecturer on Orthopædic Surgery and Demonstrator of Surgical Appliances, *ibid.*, 1895—; Attending Orthopædic Surgeon, St. Luke's Hospital, 1895; Attending Physician to Presbyterian Hospital, 1897—; Assistant Professor of Surgery and Examiner, Rush Medical College, 1897—.

## FELLOWS APPOINTED FOR 1901–1902.

(In the Medical Departments).

**Charles Christopher Adams**, S.M., Zöology.
**Wallace Appleton Beatty**, S.M., Chemistry.
**William McAfee Bruce**, A.M., Chemistry.
**Francis William Bushong**, A.M., Chemistry.
**Arthur White Greeley**, A.M., Physiology.
**Eugene Howard Harper**, A.M., Zoölogy.
**Shinkishi Hatai**, Neurology.
**Mary Hefferan**, A.M., Bacteriology.
**Charles Ingbert**, A.B., Neurology.
**Charles Hugh Neilson**, A.M., Physiology.
**Daniel Graisberry Revell**, M.B., Anatomy.
**John Wilkes Shepherd**, A.M., Chemistry.
**Louis Neill Tate**, S.B., Anatomy.

## INTRODUCTORY STATEMENT.

For several years the University of Chicago has offered courses suitable for students who were preparing to undertake medical work, and also in several of the subjects usually included in the first two years of a medical college curriculum. In 1899 provision was made for courses in Practical Anatomy, and under the arrangement of affiliation with Rush Medical College, the University has offered, during the current session, courses corresponding to all of the work of the Freshman year of that institution. Medical students have been permitted to take their Freshman work at the University or at the College at their option. After June 19, 1901, the University will offer instruction in all of the subjects of the first two years of the medical curriculum; namely, in Anatomy, both gross and microscopic, Neurology, Embryology, Physiology, Physiological Chemistry, Inorganic, Organic, and Analytical Chemistry, Toxicology, Pathology, Bacteriology, and Pharmacology. The student who has completed this work will be prepared to enter directly upon the clinical work, that is to say, the work of the third and fourth years of the medical school. All of the work of the first two years of Rush Medical College will hereafter be offered at the University only. Students taking this work at the University will matriculate and register as students of Rush Medical College and likewise as students of the University. There will be no extra fee for such registration at the College.

For the session beginning June 19, 1901,* students will be admitted to the medical course who can comply with the requirements for admission to the Junior Colleges of the University of Chicago, corresponding to the requirements for admission to the Freshman year of an institution of equal rank. The necessity, however, for a broader and more thorough preparation for the study of medicine is strongly emphasized, and every student is advised to procure a liberal education, such as can be obtained only in a well equipped college or university, before taking up the study of medicine. This preparation, which should extend over at least two years of college work, should include a thorough course in Mathematics, in German and French, and in the sciences of Physics, Chemistry, and Biology. The requirements for admission to the medical course will be increased after the ensuing year, and ultimately the Junior College certificate of the University, corresponding to the completion of the Sophomore year of a high grade college or university, will be demanded. (See p. 14.)

Attention is called to the fact that courses are offered in the departments of Arts, Literature, and Science of the University, in all the branches of a liberal education, and a medical student may take work in these branches by attendance upon additional quarters, or to a limited extent by extra work during his attendance upon the medical course. Students desiring to take work of this character should consult with the Dean of the Medical Course. Students who have completed not less than eighteen majors of University work, corresponding to the Freshman and Sophomore years of a high grade university or college, and who have acquired a good knowledge of Physics, Chemistry, and Biology, and a reading knowledge of French and German, will be allowed to elect their work in the medical branches, subject to the restrictions imposed and to the approval of the Dean. (See p. 17, 2.) Students of this class who have not completed the work for the Bachelor's degree may apply their credits in medical courses as Senior College electives for a Bachelor's degree. (See p. 30.) Not only is the medical work elective for students who are thus prepared, but the courses are so arranged that the attention of the worker may be concentrated upon single or allied subjects. For example, anticipation of the chemistry of the medical course will permit a student to devote more time to any of the more strictly medical sciences. Students of this class who have received a college degree (A.B., Ph.B., or S.B.), are permitted to exceed the usual registration of three majors of work per quarter without the payment of extra tuition fee, and it is hoped that this will encourage such students to avail themselves of the opportunities offered for advanced work and original research.

The teaching of the fundamental medical branches in an institution of general learning is believed to constitute a distinct step in advance in medical education. The student pursuing these branches in the atmosphere of an institution devoted to purely scientific work under the instruction of men whose time is wholly devoted to teaching and investigation along their respective lines, cannot but arrive at a broader and more thorough conception of these sciences. Such a training will not only afford a better preparation for the clinical courses of the medical college and for the practice of medicine and surgery, but will enable its possessor to follow easily in paths along which medical advances promise to be made, and to apply these new discoveries in his daily work.

---

* See p. 18, § 3, in regard to the best time for entering on the medical course.

## LABORATORIES, EQUIPMENT, AND LIBRARIES.

### THE HULL BIOLOGICAL LABORATORIES.

On December 14, 1895, Miss Helen Culver, of the city of Chicago, presented the University of Chicago with property valued at $1,000,000 — the whole gift, according to the terms of the letter of endowment, to be devoted to the increase and spread of knowledge within the field of the biological sciences. From this fund there have been erected, at the north end of the University grounds, four buildings to serve as laboratories for the Anatomical, Botanical, Physiological, and Zoölogical Sciences. Medical instruction is given in the Anatomical, Physiological, and Zoölogical Laboratories.

#### THE ANATOMICAL LABORATORY.

The Anatomical Laboratory is 120×50 feet, and four stories high, exclusive of the basement and attic, and was constructed to provide for Anatomy, both gross and microscopic, including Neurology.

In the basement are special rooms for keeping frogs and similar animals at low temperatures; a bone room, a cold storage room for anatomical material, and a crematory.

The first floor is occupied by three large laboratories for microscopic work (Histology, Microscopic Anatomy, Neurology, and Pathology), and a large photographic room containing a stone pier and connected with a dark room. On the second floor there is an additional room for general class work in microscopic branches, a lecture room and an Osteological Laboratory. Here, too, are located the laboratories of the staff in Neurology and a laboratory for advanced work and original research in Neurology. On the third and fourth floors are situated the dissecting rooms for Human Anatomy, the private laboratories for instructors and research workers, and two laboratories for the making of special preparations. In the attic there is a well-lighted operating room adjoining a large animal room; in addition several storerooms are situated here. The laboratories are well equipped for work in gross and microscopic Anatomy and in Pathology, and especial facilities are afforded for advanced work and original research.

#### THE PHYSIOLOGICAL LABORATORY.

The Physiological Laboratory is 102 by 52 feet and four stories high, exclusive of the basement and attic. The basement contains a cold-storage room, aquarium room, an animal room, workshop, and storeroom. It is connected with the greenhouse of the laboratory. The first floor contains a general laboratory for beginners, a galvanometer room, a lecture room, and photographic room. The second floor contains a large lecture room with preparation room and storeroom, the departmental library, an optical room, two dark rooms, and a private laboratory. The third floor contains two laboratories for advanced workers in Physiology, a laboratory for beginners in Physiological Chemistry, and Pharmacology, a balance room, and several smaller rooms for work in Physiological Chemistry, and Pharmacology. The fourth floor contains two rooms with cages for animals and an operating room. In addition, two laboratories for work in Physiological Chemistry and Pharmacology, a combustion room, and a room for work in gas analysis. The laboratories are well equipped both for general instruction in Physiology, Physiological Chemistry, and Pharmacology and for advanced and research work in these sciences.

#### THE ZOÖLOGICAL LABORATORY.

The Zoölogical Laboratory is 120 by 50 feet, and four stories high, exclusive of the basement.

On the first floor are located the library of the biological departments, rooms for a synoptical museum, a large laboratory for elementary Zoölogy and a laboratory for research work in Pathology. The second floor contains one large laboratory for beginners in research, and a number of smaller laboratories for more advanced work. The third floor contains two large laboratories, one for comparative anatomy and embryology, the other for cellular biology, and a number of rooms for research. The third floor is devoted to the laboratories for Bacteriology, which are supplied with sterilizers, incubators, special microscopes, and other bacteriological apparatus, and are furnished with tables for microscopical work and for the usual laboratory manipulations. The basement contains one large room with glass-covered extension on the south side, designed for an aquarium, two rooms for use as aviaries, vivaria, etc., one room for palæontological material, and one for taxidermy and museum purposes.

The best optical and other apparatus demanded by zoölogical work are provided. There are series of models and charts illustrating embryological and morphological subjects, and ample facilities for keeping land and aquatic animals under favorable conditions for study.

### THE KENT CHEMICAL LABORATORY.

The Chemical Laboratory provided by the generosity of Mr. Sidney A. Kent is 176 by 64 feet and three stories high exclusive of the basement. An amphitheater seating 750 people forms an annex to the building. Lectures are given in rooms on the first floor. The laboratory instruction in General Inorganic and Elementary Organic Chemistry is given on the third floor in three large laboratories accommodating 300 students. Each student is given a separate desk supplied with gas and water and is furnished with all necessary chemicals and apparatus. The laboratories for analytical chemistry are on the second and third floors. The advanced work in chemistry is done in general and private laboratories on the first and second floors. There are a number of small rooms used as balance, combustion, gas-analysis, photographic rooms, etc. The Chemical Library contains full sets of the most important journals, books of reference, and other works relating to Chemistry.

### THE LIBRARIES.

The General Library is located on the northeast corner of the University quadrangles. The building now occupied is temporary and is to be used until such time as a permanent library building may be erected.

The General Library is for the use of students in all departments of the University. Students who have matriculated may take at one time three volumes from the General Library. These may be kept two weeks, and at the end of that time, if desired, may be renewed for two weeks.

Former students may continue the use of the library by the payment of the library fee of $2.50 per quarter.

The total number of books at present in the library is approximately 230,000.

Number of volumes in departmental libraries of departments concerned in medical instruction, January 1, 1900: Biology, including Anatomy, Neurology, Physiology, Bacteriology, Pathology, Zoölogy, Physiological Chemistry, and Pharmacology, 8353; Chemistry 1813, Physics 1375.

All the branch and departmental libraries are catalogued and classified. Most of the collections in the General Library are now permanently arranged.

Liberal appropriations have been made this year to each of the departments giving courses in medicine for the purchase of additions to the libraries dealing especially with the subjects concerned. A further annual appropriation has been granted to each department which will permit of the supply of all the important current scientific medical journals and reviews and the purchase of monographs as they appear from month to month.

The students of the University are permitted to use the books and periodicals in the Newberry Library and in the Crerar Library, both of which contain a large number of medical and general scientific works.

The Public Library of Chicago is also available to medical students for general reading.

## ADMISSION TO THE MEDICAL COURSE.

### GENERAL REGULATIONS.

Students are admitted to the Medical Course either as 1) *Medical Students*, or 2) as *Undergraduate Students* (candidates for a bachelor's degree, S.B., A.B., or Ph.B.).

*Graduates* of the University of Chicago or of other universities or colleges of good standing are admitted to the Medical Course as Medical Students; they are allowed all the privileges of the members of the Graduate Schools of the University.

In addition to students in regular standing, provision is made for the admission to the University of undergraduate students not seeking degrees. Such students are known as *Unclassified Students*.

1. *Admission as a Medical Student.*
    - *a*) Each student must present to the faculty certificates of good moral character, signed by at least two physicians of good standing in the state in which the applicant last resided.
    - *b*) He must be able to comply with the requirements for admission to the Junior Colleges of the University of Chicago. These requirements

are stated below on p. 12. They correspond to the requirements for admission to the Freshman class of the better universities or colleges.

*c*) He must matriculate and register as a student of Rush Medical College as well as of the University at the beginning of his course. Such matriculation and registration is accomplished at the University.

2. *Admission as an Undergraduate Student* (as a candidate for a bachelor's degree).

*a*) The first two years' work in Medicine may be taken as the third and fourth years of the bachelor of science course upon fulfillment of certain requirements for the degree (see p. 30 of this *Bulletin*).

A very considerable part of the first two years' work in Medicine may also be taken during the third and fourth years of the bachelor of arts or the bachelor of philosophy courses (see p. 30 of this *Bulletin*).

Students who wish to enter college and prepare to take the Medical work as part of their baccaulaureate course may enter at the beginning of the Junior College Course (first college year) or at any farther stage of advancement.*

Students who wish to take the Medical course as part of their baccalaureate course and desire to be admitted at once to the Medical course must secure admission to the Senior Colleges (third and fourth academic years) of the University.*

*b*) Each student must present to the faculty certificates of good moral character signed by at least two physicians of good standing in the state in which the applicant last resided.

*c*) In order to comply with the rules of the Medical Examining Boards of several states a student will matriculate and register with the Dean of Rush Medical College (at the University) at the beginning of the first or second year's work in Medicine. He will continue to register, at the same time, with the Dean of the Senior Colleges until he receives a bachelor's degree.

3. *Admission as a Graduate Student.*

*a*) Admission to the Graduate Schools of the University is granted (1) to those who have been graduated from the colleges of the University of Chicago with the degree A.B., Ph.B., or S.B.; (2) to those holding baccalaureate degrees from other institutions of good standing.

*b*) Applications for admission in the case of students not graduates of the University should be accompanied by testimonials as to character and scholarship. Such testimonials should take the form of diplomas, written or printed theses, or satisfactory evidence in some other form of the student's fitness for admission.

*c*) A Graduate Student taking the Medical Course will register as a Medical Student with the Dean of Medical Students and must fulfill the conditions prescribed above in 1. *a*) and *c*).

*d*) Advanced standing in the Medical Course is granted for work done in other colleges or medical schools according to the conditions stated on p. 14 of this *Bulletin.*

4. *Unclassified Students.*

*a*) Candidates for admission to the University as *Unclassified Students* (1) must be at least 21 years of age; (2) must show good reason for not entering upon a regular course; (3) *must take the entrance examinations of the departments in which they wish to work;* (4) must satisfy the Dean and the particular instructors under whom they desire to study that they are prepared to carry the courses elected.

Unclassified students conform to all regulations of the University, and, having been admitted, their continuance depends on the maintenance of a satisfactory standing.

**Note.— Students entering the University for the first time should make it a point to complete all arrangements for entrance, either by correspondence or in person,** ***at least two days before the opening of the quarter.***

---

* A student desiring to enter the course as a candidate for the S.B., A.B., or Ph.B. degrees is requested to consult p. 12 of this *Bulletin* and write for the *Circular of Information* of the Colleges, in which a complete statement is given of the requirements for the college degrees and of the conditions for admission to advanced standing in the colleges. He is also invited to enter into correspondence upon the subject with The Dean of Medical Students, the University of Chicago, Chicago, Ill.

## REQUIREMENTS FOR ADMISSION (1901–2).

### I. In General.

Preparation for admission is expected to cover a a period of four years in a secondary school (high school or academy) of high grade. Admission credits are reckoned in units, and a unit corresponds to a course of study comprising not less than 150 hours of prepared work (4 hours a week during a school-year of 36 weeks). Two hours of laboratory work are regarded as the equivalent of an hour of prepared work. Fifteen units are required for admission. Some of them are definitely prescribed, while others are elective, under the conditions stated below.

*When a student presents credit for these units from an affiliated, or coöperating school (see list on p. 13), such credit is allowed without further examination. Admission will also be granted, without examination, on the basis of work done in accredited schools of certain State Universities* (see p. 12, § III). *If a credit be presented for work done at any other school, the student is required to pass an examination conducted by the University* (see p. 13, § 5).

### II. In Detail.*

1. *Prescribed Units.* The following 9½ units are required of all candidates for admission :

*English,* 2 units.

Remark.—No candidate will be accepted in English whose work is seriously defective in point of spelling, punctuation, grammar, or division into paragraphs.

*History,* 1 unit (Greek and Roman History).

*Latin,* 2 units (Cæsar and Elementary Grammar).

*Mathematics,* 2½ units (Algebra through Quadratic Equations and Plane Geometry).

*Physics,* 1 unit (Elementary Course, including laboratory work).

*Chemistry,*† 1 unit (Elementary Course, including laboratory work).

In Physics and Chemistry the candidate will be required to hand in the original notebook in which he recorded the steps and results of the experiments which he performed at school; and this notebook must bear the indorsement of his teacher certifying that the notes are a true record of the pupil's work. The notebook should contain an index of the exercises which it describes.

2. *Elective Units.* The remaining 5½ units of the 15 which are to be presented for admission may be selected from any of the subjects in the list below. The selection of the following is recommended :

*German, French,* or *German* and *French,* 3 units; *Mathematics,* ½ unit (Solid Geometry); and 2 units of *Science* besides the prescribed units of Physics and Chemistry.

Any combination of 5½ units may be chosen, however, from the following complete list of elective units :

*History,* 4½ units (Mediæval European, ½ unit; Modern European, ½ unit; United States, Elementary, ½ unit; United States, Advanced, 1 unit; English, Elementary, ½ unit; English, Advanced, 1 unit.

*Mathematics,* ½ unit (Solid Geometry).

*Latin,* 2 units (Virgil, Cicero, Advanced Prose).

*Greek,* 3 units (Anabasis, Elementary Prose, 2 units; Homer, 1 unit).

*Civics,* ½ unit.

*French,* 3 units (one, two or three units).

*German,* 3 units (one, two or three units).

*Biology,* 1 unit, or

*Zoölogy,* 1 unit, and

*Botany,* 1 unit.

(See statement concerning notebook under Physics above.)

*Physiology,* ½ unit.

*Physiography,* 1 unit (one or two ½ units).

*Geology,* ½ unit.

*Astronomy,* ½ unit.

### III. Examinations and Admission Without Examination.

1. *Times and Places of Examinations.* Examinations for admission are held four times a year at the University. (For dates see calendar p. 35.) They are also given at the request of students or teachers at any of the regular dates, in cities outside of Chicago in which satisfactory arrangements can be made. Applications for such examinations should be made to the Dean of Affiliations at least 30 days in advance. Examinations for admission at other

---

* *A complete and more detailed statement of the requirements and the ground covered by each subject will be sent to any principal, teacher, or student on application to the Dean of Medical Students.*

† Students may enter the Medical Course without entrance Chemistry, one unit, but such students will be conditioned and required to take two courses (p. 19) in Chemistry in addition to the prescribed work of the Medical Course. The two courses may be taken in the Summer Quarter previous to the beginning of the Medical Course, or as extra work (see p. 15, 2c) during the Medical Course, or in the Summer Quarter between the first and second years of Medicine.

than the regular dates may be given only at the University and that by special permission of the Dean, and upon the payment of a fee of not less than $10.00 nor more than $15.00 (the amount being dependent on the number of examinations taken).

Candidates for admission are not required to take all the examinations at one time.

2. *Students from Morgan Park Academy and the Affiliated and Coöperating Schools.* Students from these schools are admitted to the University upon presentation of a *subject certificate* covering each of the subjects stated above as required for admission. The affiliated and coöperating schools are named below :

3. *Affiliated Schools.* The following is the list of affiliated schools doing preparatory work: Bradley Polytechnic Institute, Peoria, Ill.; Culver Military Academy, Culver, Ind.; Frances Shimer Academy, Mt. Carroll, Ill.; South Side Academy, Harvard School, Kenwood Institute, Chicago Manual Training School, Princeton-Yale School, Dearborn Seminary, the University School for Girls, all of Chicago; Rugby School, Kenilworth, Ill.; Wayland Academy, Beaver Dam, Wis.; Elgin Academy, Elgin, Ill.; Burlington Institute, Burlington, Iowa.

4. *Coöperating Schools.* The following is the list of Coöperating secondary schools :

The High Schools of Chicago, viz.: Austin, Calumet, Englewood, English High and Manual Training, Hyde Park, Jefferson, John Marshall, Joseph Medill, Lake, Lake View, North Division, Northwest Division, South Chicago, South Division, West Division.

Other High Schools in Illinois : Aurora (East Side), Aurora (West Side), Bloomington, Blue Island, Clyde, Elgin, Evanston Township, Freeport, Harvey, Hinsdale, Joliet, La Salle, Lyons Township, Moline, Oak Park, Ottawa Township, Peoria, Princeton, Quincy, Riverside, Rockford, Rock Island, Springfield, and Waukegan.

In California : San Francisco Girls' and Lowell High Schools.

In Colorado : Colorado Springs, Denver, West Denver and Pueblo (Central and Centennial) High Schools.

In Indiana : Fort Wayne High School, Indianapolis High School, Indianapolis Industrial Training School, Classical School for Girls (Indianapolis), La Porte, Terre Haute, and Richmond High Schools.

In Iowa : Davenport, Des Moines (West Side), Dubuque, Keokuk, Sioux City, Clinton, Cedar Rapids, Ottumwa, and Council Bluffs High Schools.

In Kansas : Leavenworth, Fort Scott, and Topeka High Schools.

In Kentucky : Boys' High School and Girls' High School, Louisville.

In Michigan : Michigan Military Academy (Orchard Lake), Battle Creek, Grand Rapids (Central), St. Joseph, and Benton Harbor High Schools.

In Minnesota : Duluth (Central), Minneapolis Central and East Side High Schools, and St. Mary's Hall and Shattuck School, Faribault.

In Missouri : Hosmer Hall (St. Louis), St. Louis and Kansas City High and Manual Training Schools.

In Nebraska : Omaha High School.

In Ohio : Cleveland (Central), Columbus (Central), Toledo (Central), Dayton (Steele High School), and Youngstown High Schools.

In Pennsylvania : Pittsburgh Central High School and Westtown Boarding School.

In Wisconsin : Milwaukee (S., E., and W. Side) and Racine High Schools, Milwaukee Downer College, Milwaukee, and Hillside Home School.

5. *Accredited Schools of Certain State Universities:*

For the year beginning June 19, 1901, credits from the following schools, in addition to the foregoing list, will be accepted for admission to the **Medical Course** of the University : Four-year High Schools and Academies on the accredited lists of the following Universities : the University of Wisconsin, the University of Michigan, the University of Minnesota, the University of Iowa, the University of Illinois, the University of Nebraska, the University of Kansas, the University of Indiana, and the University of Ohio.

### REQUIREMENTS FOR ADMISSION IN 1902–3 AND 1903–4.

For the sessions of 1902–3 and 1903–4 there will be required a certificate of admission to the second year of one of the regular courses of the University of Chicago, or to the Sophomore class of an institution of equal rank, or, in lieu of this, examination in the corresponding branches.

For the session of 1904–5, the student must be prepared to enter the Senior College (third academic year) of the University of Chicago, or the Junior class (third academic year) of an institution of similar rank.

See p. 30 of this *Bulletin* for the two years' course of college studies recommended for students preparing to study medicine.

Attention is called to the fact that the extra credits which will be required in addition to high-school work (9 Majors in 1902–3, 1903–4; 18 Majors in 1904–5 and thereafter) may be secured in the Colleges of Arts, Literature, and Science of the University of Chicago by attendance upon extra quarters before entering the medical course or, in small part, by taking extra work in these colleges during the student's attendance upon the medical course. A student may qualify for admission to the medical course simply by prolonging his attendance or taking extra work in the University. Credit for such work in any other college or university of equal standing will be accepted.

### ADMISSION TO ADVANCED STANDING IN THE MEDICAL COURSE.

The following students are admitted to advanced standing in the medical course of the University:

*First.* Students from other medical schools whose standards are fully equivalent to those of this institution may receive credit for time spent — estimated in months — and for any work successfully completed in such institutions which is equivalent to corresponding work in the medical course of the University. Such a student should give an explicit statement in regard to his preliminary education before beginning the study of medicine, the date of beginning and ending of each session attended in a medical college, together with name of the college and statement of the branches which he has successfully completed: the latter statement should set forth, if possible, the exact number of hours given to each branch.

*Second.* Graduates of recognized Colleges of Arts or Science which require a regular attendance of four years as essential to graduation may be given credit for each major of work (or a full equivalent therefor) which corresponds to any of the work in medical courses. *A Major corresponds to sixty hours of didactic or recitation work, or one hundred and twenty hours of laboratory work,* or of lectures and laboratory work in the given proportion. Students of this class applying for advanced standing should state fully the date of beginning and ending of each session attended at a university or college, together with the name of the college or colleges attended, and a statement of all work which has been taken in any of the following branches: German, French, Chemistry, Physics, and any of the Biological branches.

*Third.* Graduates of reputable and regularly established colleges of dentistry, pharmacy, or veterinary medicine which require before graduation attendance upon a course extending over three or more years, and who can comply with the requirements for admission, may be given credit for any of the work of the Freshman and Sophomore years of the medical curriculum which may have been successfully completed in the institutions mentioned, on condition that they pass examination in those branches at the University.

A student may matriculate at any time in person or by correspondence.

---

## GENERAL INFORMATION.

### ROUTINE OF ENTRANCE.

Applications should be addressed to THE UNIVERSITY OF CHICAGO, Chicago, Ill. When presenting himself for admission to the University, the student should bring his *card of admission credits* (see p. 13) if he is entering the medical course at its beginning; his *letter of dismissal* and an official statement concerning his previous work if he is entering with advanced standing from another institution; and his *diploma* if he is applying for admission to a Graduate School.

These documents should be presented at the office of the dean of the medical students. Detailed directions will be furnished in the dean's office as to the mode of matriculating and registering for courses of instruction desired.

## FEES FOR MATRICULATION, TUITION, ETC.

1. *Matriculation Fee.*

*a*) The Matriculation Fee is $5.00 and is required of every student upon entrance to the University. It is payable but once.

*b*) A Medical student will also matriculate as a student of Rush Medical College. The fee is $5.00 and the matriculation is good for the complete medical course including the clinical years.

*c*) An undergraduate student, candidate for a bachelor's degree, who wishes to take the Medical Course as a part of the work for the bachelor's degree will also matriculate as a student of Rush Medical College at the beginning of the first or the second year of his work in the Medical course. (See p. 11, 2*c*). The fee is $5.00 and the matriculation is good for the complete medical course including the clinical years.

Matriculation for Rush Medical College can be accomplished at the University through the Dean of Medical Students.

2. *Tuition Fee.*

*a*) The Tuition fee is $40.00 per quarter (including the library and incidental fee, $5.00) for regular work (3 Majors or their equivalent); there is no reduction to those taking only 2 Majors.

*b*) A reduction is made in case of students taking only 1 Major (or equivalent), one half the full tuition fee being charged.

*c*) Undergraduates (including Unclassified students) taking more than 3 Majors, will be charged (in addition to the regular tuition fee) at the rate of $15.00 for each additional Major.

*d*) Physicians and Postgraduates taking only one course (1 Major) are charged $20.00 per quarter; for more than one course the full tuition fee of $40.00 per quarter is charged.

*e*) *All tuition and laboratory fees are due and payable on or before the* FIRST *day of* EACH QUARTER. *All fees are payable to the Registrar, Cobb Lecture Hall, Room A1.*

Registration is not complete until all University bills are paid. Those who fail to meet this obligation within the first five days of the quarter are not regarded as members of the University. After the fifth day, to secure membership in the University the consent of the Dean and the payment of a fee of $5.00 for late registration will be required.

It is intended to increase gradually the medical tuition fees, but a student in continuous attendance (at least two quarters each year) may pursue his whole course by paying the fees in vogue at the time of his matriculation.

3. *Laboratory Fees and Incidental Expenses.*

Students in Chemistry, Practical Gross Anatomy, Splanchnology, Physiological Chemistry, Pharmacology and Pathology pay a laboratory fee of $5.00 for a Major course and $2.50 for a Minor course. Students in Physiology and Bacteriology pay a laboratory fee of $3.00 for a Major course, and $1.50 for a Minor course. Students in Biology, in other courses than those already mentioned, pay $2.50 for a Major course, and $1.25 for a Minor course.

In addition to the regular laboratory fee a deposit of five dollars ($5.00) is required from each student to procure coupon tickets to cover loss and breakage in the laboratories. Unused portions will be redeemed.

All students taking courses in the Department of Physical Culture are required to provide themselves with gymnasium suits for use in the gymnasium. The cost of such a suit is about $4.00.

Each student who procures a skeleton from the Osteological Laboratory will deposit twelve dollars for the same, which sum will be refunded when the skeleton is returned uninjured; he may, however, retain the skeleton if he so desires, in exchange for the amount deposited.

4. *Combined Fee for Tuition and Laboratory Work for Medical Students.*

The total amount of laboratory fees for the required work of the medical course (see p. 17) is close to $35 a year, distributed, however, unequally in the three quarters. The total tuition fee for three quarters is one hundred and twenty dollars ($120). **Students taking the Medical course will be allowed to pay in lieu of the quarterly tuition fee and all laboratory fees a total fee of ($52.50) per quarter.** When this arrangement is once accepted by the student it becomes binding during the rest of his medical course. The fee will include one coupon ticket for $2.50 (*issued only once in three quarters*) to cover cost of material furnished in the laboratories.

A deposit of $5.00 is required from each student to procure coupon tickets to cover avoidable loss and breakage in the laboratories.

*Medical students who matriculated at* **Rush Medical College** *on or before April 1, 1901, will, in* *accordance with the terms in vogue at the date of such matriculation, be allowed to pay a total fee of $50.00 per quarter in lieu of the quarterly tuition fee and all laboratory fees.* When this arrangement is once accepted by the student it becomes binding during the rest of his medical course. The fee will include a coupon ticket for $2.50 (*issued only once in three quarters*) to cover cost of material furnished in the laboratories.

A deposit of $5.00 is required from each student to procure coupon tickets to cover avoidable loss and breakage in the laboratories.

## ROOMS, BOARD, AND GENERAL EXPENSES.

Eight dormitories have thus far been erected in the quadrangles. Two of these are reserved for the students of the Divinity School and four are for women. A University House is organized in each dormitory; each House has a Head, appointed by the president of the University, and a House Committee, elected by the members; also a House Counselor, selected from the Faculties of the University by the members of the House. The membership of the House is determined by election, and each House is self-governing under the general control of the University Council.

The cost of rooms in the dormitories is from $20.00 to $57.00 per quarter of twelve weeks. This includes heat, light, and care. The rooms in Snell Hall, and all but one on each floor of Foster, Kelly, Green, and Beecher Halls, are single, and intended for occupancy by one student each, unless special arrangement otherwise is made with the Head of the House. In North Hall the rooms are single and in suites of a study and two sleeping rooms. Diagrams of the halls, showing prices of the rooms, with full particulars, will be sent by the Registrar on application. Rooms will not be rented for a shorter period than a quarter, except in the Summer Quarter. If a student desires to surrender a room at the end of the quarter, notice to that effect must be given the Registrar three weeks prior to that date. The rooms are furnished with study table, chairs, bookcase, bedstead and mattress, bureau-commode, mirror, chamberware, and carpet rug. Rooms cannot be subrented, nor can exchange or transfer of rooms be made except by permission of the Registrar. In case of vacancies, applicants will be assigned rooms in the order of application. Each hall for women has separate dining hall and parlors. The cost of table board in these halls is $42 a quarter.

All applications for rooms, or for information concerning rooms and board within or without the quadrangles, should be made to the Registrar.

Undergraduate students not living in University Houses are not permitted to room in any building in which a family does not reside.

The following table will furnish an estimate of the annual expenses for thirty-six weeks of a medical student in the University, residing within the quadrangles:

| | LOWEST. | AVERAGE. | LIBERAL. |
|---|---|---|---|
| University bill, tuition.........* | $120 00 | $120 00 | $120 00 |
| University bill, laboratory fees† | 37 50 | 37 50 | 37 50 |
| Rent and care of room.......... | 60 00 | 105 00 | 125 00 |
| Board.......................... | 90 00 | 126 00 | 225 00 |
| Laundry........................ | 15 00 | 25 00 | 35 00 |
| Text-books and stationery...... | 10 00 | 20 00 | 50 00 |
| | $332 50 | $433 50 | $592 50 |

It is believed that students who find it necessary to reduce expenses below the lowest of these estimates can do so. Rooms outside the quadrangles, furnished, with heat, light, and care, may be obtained at from $1.00. a week upwards, the $1.00 rate being easily secured where two students room together. Many places offer room and board from $4.50 upwards. There are student clubs which secure board at cost, the rate during the past year ranging from $2.25 to $2.75 a week. A list of approved boarding places outside the quadrangles is kept on file at the room of the Y. M. C. A., Haskell Museum, and information regarding the same may there be obtained.

## THE QUARTER SYSTEM.

The Academic year of the University of Chicago and of Rush Medical College is divided into four quarters. These are designated as the Summer, Autumn, Winter, and Spring Quarters, beginning, respectively, on June 19, 1901, and on the first of October, the first of January, and on the first of April, each continuing for twelve weeks. A recess of one week occurs between the end of each quarter and the beginning of the next following, excepting that there is no recess between the end of the Spring and the beginning of the Summer Quarter, and that there is a recess of one month at the close of the Summer Quarter.

---

* Medical students attending the first quarter must pay the matriculation fees, $5.00 to the University and $5.00 to Rush Medical College.

† *This item is reduced to $30.00 for Rush Medical students, who matriculated on or before April 1. 1901.*

### THE MEDICAL CURRICULUM AS RELATED TO THE QUARTER SYSTEM.

The general course of instruction in Rush Medical College requires four years of study in residence, with a minimum of attendance upon three quarters of each year. These years are designated as the Freshman, Sophomore, Junior, and Senior years, respectively.

A student may begin his college work on the first day of any quarter [see, however, p. 18, § 3, no. 3) ], and may continue in residence for as many successive quarters as he desires, and will receive credit for work accomplished. Attendance during all the four quarters of the year is optional, but will not secure a time-credit of more than one year in a medical school. At least forty-five months must elapse between the date of a first matriculation and the date of graduation. Under the restrictions imposed, this system does not conflict with the existing medical practice acts, nor with the rulings of the various State Boards of Medical Examiners.

### THE SUMMER QUARTER.

Attention is directed to the special opportunities afforded for medical study in the Summer Quarter. The climate of Chicago is particularly well adapted to midsummer work. Instruction in all departments is given in the Summer Quarter.

## THE WORK OF THE MEDICAL COURSE.

1. *Outline of the Course.*

The course for the first two years' work in Medicine consists mainly of instruction in the fundamental medical sciences: Chemistry, Human Anatomy, Microscopic Anatomy, Histology, Neurology, and Embryology, Physiology, Physiological Chemistry, Toxicology, Pharmacology, Pathology, and Bacteriology.

2. *Amount of Work.*

The amount of work required is eighteen Majors. A *Major* (Mj.) is the unit of work and consists of five hours per week in class-room throughout one quarter (12 weeks) or the equivalent amount of laboratory work a week (a total of 60 hours class-room work or the equivalent amount of laboratory work). From two to three hours of laboratory are regarded as the equivalent of one hour of class-room work.

A *Minor* (M.) consists of five hours a week in class room, throughout one term (six weeks) or the equivalent amount of laboratory (a total of 30 hours of class-room work, or an equivalent amount of laboratory work).

A *Double Major* (DMj.) course occupies twice as many hours per week as does a Major, a *half Major* course (½ Mj.) one-half the time per week.

3. *The Curriculum.*

1) Except in the case of certain students with special preparation (see below, 2) all the work of the Medical Course is prescribed for those who wish to receive credit for the first two years' work in Medicine. It consists of the following courses: *

a) Chemistry, 2½ Majors† (1B, 2B, and 4 ¶).

b) Human Anatomy : 6½ Majors.
   Introductory Anatomy, Minor (0).
   Histology, Minor (1A).
   Osteology, Minor (3).

   Two of these three Minor courses must be taken.

   Human Anatomy, including Dissecting, three Majors (4, 5, 6).
   Splanchnology, ½ Major (2).
   Embryology, 1 Major (Zoölogy 17).
   Neurology, 1 Major (Neurology 3).

c) Physiology : 6 Majors :
   Physiology, 3 to 3½ Majors (12, 13, 14).
   Physiological Chemistry, 1½ Majors (20).
   Pharmacology, 1 Major (21).
   Toxicology, ½ Major (Chemistry 19).

d) Pathology : 3 Majors :
   Bacteriology, 1½ Majors (1).
   Pathology, 1½ Majors (3, 4).

2) An undergraduate or graduate student, who has completed substantially the course of college studies recommended as a preparation for Medicine (see p. 30), or who has taken the Freshman and Sophomore years of a university or college of good standing, and has acquired a good knowledge of physics, chemistry, and biology, and a reading

---

*Detailed statements concerning the courses are given below under the various departments of instruction. They should be consulted in every case *in regard to equivalent courses which may be substituted for those whose numbers are given in the above table.*

†When no credit has been received for High School Chemistry on admission, two additional Majors must be taken. See footnote p. 12, and p. 19.

¶ The numbers refer to the course numbers in the corresponding department.

knowledge of German and French, may elect his work in the medical course, in view of his special preparation for the medical branches. His selection is subject to the approval of the Dean of the Medical Course, and of the head of each department in which he elects work. In choosing his work he should keep in mind that a minimum amount of work in the several branches is demanded in the course for the degree of Doctor of Medicine (see, for example, "Requirements for Graduation in Rush Medical College," p. 31 of this *Bulletin*).

3) The curriculum of instruction has been arranged in such a way as to insure for the student beginning his medical studies with any single quarter of the year, a complete annual course during any three consecutive quarters, but students are advised to enter at the beginning of the Autumn Quarter, if possible.

NOTE.—When, however, a student has not taken Chemistry in his high school or academy course, he is advised to enter the University for the Summer Quarter (beginning in 1901 on June 19, and closing August 31) in order to make up this deficiency in Chemistry.

The following table shows the arrangement of the courses for the six quarters of work comprised in the first two years of Medicine and the recommended sequence of studies. No student, however, is obliged to follow the order given, or to take full work in any quarter. Credit will be given for every course satisfactorily completed. (See p. 31.)

### 4. *Arrangement of Courses for Six Quarters.*

#### FIRST NINE MAJORS OF WORK.

AUTUMN, 1901.

*Chemistry* (1 B*), Major; *Histology*† (Anat. 1 A), Minor; *Osteology*† (Anat. 3), Minor; *Introductory Anatomy*† (0), Minor; *Human Anatomy* (4), Double Minor. The following other courses are given in this quarter, and are open to students with advanced standing and the necessary prerequisites: Bacteriology, Physiology, Analytical and Organic Chemistry, Toxicology, Human Anatomy, and advanced work in all of the departments.

WINTER, 1902.

*Chemistry* (2 B), Major; *Splanchnology* (Anat. 2), Half Major; *Human Anatomy* (5 and 6), One and a half Majors. Other courses given: Physiology, Analytical and Organic Chemistry, Physiological Chemistry, Pathology, and advanced work in all of the departments.

SPRING 1902.

*Chemistry* (4), Half Major; *Embryology* (Zoölogy 17), One Major; *Physiology* (12), One and a half Majors. Other courses given: Embryology, Analytical and Organic Chemistry, Pathology, and advanced work in all of the departments.

#### SECOND NINE MAJORS OF WORK.

AUTUMN, 1901.

*Bacteriology* (Pathol. 1), One and a half Majors; *Physiology* (13), One Major; *Human Anatomy* (6), One Minor. Other courses given: Toxicology, Human Anatomy, Chemistry, and advanced work in all of the departments.

Students entering from Rush Medical College (the Freshman class of 1900–1) will take only one Major of Bacteriology and also a half Major of *Toxicology* (Chem. 19).

WINTER, 1902.

*Physiological Chemistry* (Physiol. 20), One and a half Majors; *Pathology* (3), One-half Major; *Physiology* (14), One Major. Other courses given: Neurology, Human Anatomy, Splanchnology, Chemistry, and advanced work in all of the departments.

Students entering from Rush Medical College (the Freshman class of 1900–1) will take *Neurology* (3), in place of Physiology.

SPRING, 1902.

*Pathology* (4), One Major; *Pharmacology* (Physiol. 21), One Major; *Neurology* (3), One Major. Other courses given: Embryology, Physiology, Human Anatomy and Chemistry, and advanced work in all of the departments.

Students entering from Rush Medical College (the Freshman class of 1900–1) will take *Embryology* (Zoölogy 17) in place of Neurology.

### 5. *Courses given in the Summer Quarter.*

In the **Summer Quarter, 1901**, the following courses for Medical students are announced (for further information apply for *Quarterly Announcements*, Summer Quarter, 1901): General Physics, General Inorganic Chemistry, General Organic Chemistry, Bacteriology, Embryology, Histology, Splanchnology, Osteology, Neurology, and advanced courses in Physics, Chemistry, Biology, Anatomy, and Neurology. Special courses for physicians are given in Anatomy.

* The numbers refer to the course numbers in the departments named. The departmental announcements below should be consulted in regard to equivalent courses which may be substituted for those whose numbers are given in the above table.

† Two of the three Minors are to be chosen.

## XX. THE DEPARTMENT OF CHEMISTRY.[*][†]

### OFFICERS OF INSTRUCTION.

JOHN ULRIC NEF, PH.D., *Professor and Head of the Department of Chemistry.*
ALEXANDER SMITH, PH.D., *Associate Professor of General Chemistry.*
FELIX LENGFELD, PH.D., *Assistant Professor of Inorganic Chemistry.*
JULIUS STIEGLITZ, PH.D., *Assistant Professor of Chemistry.*
JOHN C. HESSLER, PH.D., *Instructor in Chemistry.*
LAUDER W. JONES, PH.D., *Associate in Chemistry.*
HARRY CHALMERS BIDDLE, PH.D., *Assistant in General Chemistry.*

JACOBUS HENRICUS VAN 'T HOFF, PH.D., *Professor Ordinarius Honorarius in the University of Berlin.* (Summer Quarter, 1901.)
WALTER STANLEY HAINES, A.M., M.D., *Professor of Chemistry, Pharmacy, and Toxicology, Rush Medical College; Professorial Lecturer on Toxicology.*
HERBERT NEWBY McCOY, PH.D., *Associate Professor of Chemistry, University of Utah,* Salt Lake City, Utah. (Summer Quarter, 1901.)

### FELLOWS.

1901-1902.

WILLIAM McAFEE BRUCE, A.M.
FRANCIS WILLIAM BUSHONG, A.M.
JOHN WILKES SHEPHERD, A.M.
WALLACE APPLETON BEATTY, S.M., *Loewenthal Fellow.*

### INTRODUCTORY.

In this department are offered (1) courses which are suited for providing the preparation in the science of Chemistry that is indispensable to the study and practice of Medicine; (2) courses which afford the student an opportunity for acquiring a more thorough and complete preparation for following intelligently the rapid advances in modern physiology and other medical subjects; and (3) courses which are indispensable for those who intend to assist in this advance by devoting themselves in part or exclusively to research in medical subjects, after completing their medical course.

### REQUIREMENTS AND ELECTIVES IN CHEMISTRY.

Medical students who receive entrance credit for High School Chemistry[‡] are required to take General Chemistry, 1B and 2B, or the two Double Minor courses, 1A and 2A (Summer Quarter).

---

[*] For courses in *Physiological Chemistry* see the Department of Physiology.

[†] The courses in Physics recommended to college students preparing to study medicine (see p. 30) are the following courses offered in the Department of Physics:

1. **General Physics.**—A course in General Physics in which are presented mainly from the experimental standpoint the most important principles involved in the study of mechanics, properties of liquids and gases, heat and sound.
10 hrs. a week. Mj. Each quarter.
Summer Quarter; 8:30–10:30. MR. HOBBS.
11:00– 1:00. DR. GALE.
Autumn Quarter; 8:30–10:30; 11:00–1:00.
DR. MILLIKAN, MR. HOBBS, AND DR. GALE.
Winter and Spring Quarters; 8:30–10:30.
MR. HOBBS AND DR. GALE.
Prerequisite: *Plane Trigonometry and Elementary (Entrance) Physics.*

2. **General Physics.**—A continuation of Course 1 covering the subjects of electricity and light.
10 hrs. a week. Mj. Summer Quarter; 2:00–4:00.
DR. MILLIKAN AND MR. HOBBS.
Repeated. Mj. Winter Quarter; 2:00–4:00.
DR. MILLIKAN AND MR. HOBBS.
Prerequisite: *General Physics 1.*

3. **General Physics.**—A course of lectures and demonstrations intended to complete a year's work in Junior College Physics. The most important principles of Physics not treated in Courses 1 and 2 are presented from the lecture standpoint. 5 hrs. a week. Mj. Spring Quarter; 9:30.
DRS. MANN AND MILLIKAN,
with occasional lectures by PROFESSOR MICHELSON.
Prerequisite: *General Physics 1 and 2.*

More advanced courses are described in the departmental announcements of the University.

[‡] Medical students who enter without receiving credit for High School Chemistry are required to take General Chemistry, Courses 1 and 2, or 1A, 2A (2 Mjs., Summer Quarter), the lectures on Organic Chemistry, 4 (Minor), and two additional Majors, which may be selected from the courses in General Chemistry, Qualitative Analysis, or Organic Chemistry.

All medical students are required to take the lectures on Organic Chemistry, 4 (½ Mj.). Organic Chemistry, 17 (Mj.), Summer Quarter, or 14 and 15 (2 Mjs.) may be substituted for Course 4.

Students who are preparing for the study of medicine, and who are also candidates for a bachelor's degree in the University of Chicago, are strongly recommended to take at least three Majors more of chemistry, viz., Qualitative Analysis, 6 and 7, and the laboratory work in Organic Chemistry, 5 or 18 (see p. 30, II, 1).

Candidates for a bachelor's degree who expect to do research work in physiology or allied medical subjects may with advantage elect further courses from the following: Quantitative Analysis, 9; Organic Chemistry, 14, 15, and 16; Theoretical Chemistry, 31 and 32; or Advanced General Chemistry, 23 (see p. 30, II, 2).

## COURSES OF INSTRUCTION.

### Summer Quarter, 1901—Spring Quarter, 1902.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=double course for twelve weeks.

PROFESSOR VAN 'T HOFF, of the University of Berlin, will offer a limited number of lectures on Physical Chemistry during the Summer Quarter.

### PRIMARILY FOR THE JUNIOR COLLEGES.

1, 2, 3. **General Inorganic Chemistry.**—*Elementary Course.*
Class room 3 hrs. a week, 12:00.
Laboratory 6 hrs. a week.
3Mjs. Autumn and Winter Quarters.
ASSOCIATE PROFESSOR SMITH.
Spring Quarter.
ASSISTANT PROFESSOR LENGFELD.

This is a continuous course through three quarters. The lectures and class-room work of 1, 2, and 3 may be taken by Graduate Students without the laboratory work or laboratory fee.

1A, 2A (formerly 4). **General Inorganic Chemistry.**—*Elementary Course.* 2 DMs. Summer Quarter.
Lectures 6 hrs. a week; 10:30.
Laboratory work 12 hrs. a week; 2:00–5:00.
ASSISTANT PROFESSOR LENGFELD.

The lectures and class-room work of 1A and 2A may be taken by Graduate Students without the laboratory work or laboratory fee.

Students offering entrance chemistry do more advanced laboratory work than those not offering it.

Courses 1 and 1A must be preceded by Preparatory (entrance) Physics or its equivalent, including some laboratory work.

1B, 2B. **General Inorganic Chemistry.**—*Advanced Course.*—2Mjs. Autumn and Winter Quarters.
Class room 3 hrs. a week, 8:30.
Laboratory 6 hrs. a week.
ASSISTANT PROFESSOR LENGFELD.

Prerequisite: *Entrance Chemistry and Physics, 1 unit each.*

This is a special course designed to form a sequel to high-school chemistry. The lecture, laboratory, and recitation work are all distinct from that of Courses 1 and 2. Whenever the preparation justifies it, qualitative analysis (Course 6) may be substituted for 2B.

4, 5. **Organic Chemistry.**—*Elementary Course.*
Lectures, with experiments, 3 hrs. a week, recitation, 1 hr. a week, 8:30. ½Mj. (Course 4),
Laboratory work 6 hrs. a week. ½Mj. (Course 5).
Mj. Spring Quarter.
DR. JONES.

Prerequisite: *General Chemistry.*

The lectures may be taken without laboratory work as a ½Major.

### PRIMARILY FOR THE SENIOR COLLEGES.

6, 7. **Qualitative Analysis.**—Chiefly laboratory work.
2 Mjs. or 2DMs. 8 or 16 hrs. a week laboratory.
2 hrs. a week class room. Lectures: 2:00.
Summer Quarter.
ASSISTANT PROFESSOR STIEGLITZ
AND DR. HESSLER.
Autumn, Winter, and Spring Quarters.
ASSISTANT PROFESSOR STIEGLITZ
AND DR. JONES.

Prerequisite: *General Chemistry.*

Courses 6, 7, form a continuous course, which may be begun in any quarter.

9. **Quantitative Analysis.**—Chiefly laboratory work in volumetric and gravimetric analysis.
Mj or DM. 10 or 20 hrs. a week.
Summer Quarter.
ASSISTANT PROFESSOR STIEGLITZ
AND DR. MCCOY.
Autumn, Winter, and Spring Quarters.
ASSISTANT PROFESSOR STIEGLITZ.
(DR. JONES assisting in the Laboratory.)

Prerequisite: *Qualitative Analysis.*

14, 15, 16. **Organic Chemistry.**—The compounds of carbon, including the fatty and the aromatic series. Lectures.

2½Mjs. Autumn and Winter Quarters, and First Term of Spring Quarter; 12:00.

Professor Nef.

Prerequisite: *General Chemistry and Qualitative Analysis.*

17. **General Organic Chemistry.**—Fatty and aromatic series.

Lectures, 5 hrs. a week.

Mj. Summer Quarter; 8:30.

Dr. Jones.

Prerequisite: *As in Course 14.*

18. **Elementary Organic Preparations.**—Laboratory work; 10 hrs. a week. This course is arranged to accompany the lectures of Course 17. It may be taken without the lectures.

Mj. Summer Quarter.

Dr. Jones.

Prerequisite: *As in Course 17.*

19. **Toxicology.**—First Term, Autumn Quarter, four lectures and recitations a week.

Tues.–Fri., 11:00.

Second Term, one lecture a week. Tues., 11:00.

Professor Haines and Dr. ——.

23. **Advanced General Chemistry.**—Causes of and conditions for chemical action. 2 hrs. a week.

½Mj. Autumn Quarter; 8:30.

Associate Professor Smith.

Prerequisite: *College Physics, General Chemistry, and Qualitative Analysis.*

31, 32. **Theoretical Chemistry.**—With special reference to physical methods. 2 hrs. a week.

2Ms. Winter and Spring Quarters; 8:30.

Assistant Professor Lengfeld.

Prerequisite: *College Physics and General Chemistry.*

34. **Physico-Chemical Methods.**—Determination of specific gravity, molecular weights, etc.

Laboratory work, 5 hrs. a week for one term.

½Mj. Spring Quarter.

Assistant Professor Lengfeld.

See the Departmental Announcements for other courses in Chemistry, suitable for advanced special students in medicine.

## *XXII. THE DEPARTMENT OF ZOÖLOGY.*

### OFFICERS OF INSTRUCTION.

CHARLES OTIS WHITMAN, Ph.D., LL.D., *Professor and Head of the Department of Zoölogy.*
CHARLES BENEDICT DAVENPORT, Ph.D., *Associate Professor of Zoölogy.*
FRANK RATTRAY LILLIE, Ph.D., *Assistant Professor of Zoölogy.*
CHARLES MANNING CHILD, Ph.D., *Instructor in Zoölogy.*

ELLIOT ROWLAND DOWNING, S.M., *Assistant in Zoölogy* (Summer Quarter, 1901).

### FELLOWS.

1901–1902.

CHARLES CHRISTOPHER ADAMS, S.M.
EUGENE HOWARD HARPER, A.M.
WILLIAM LAURENCE TOWER, S.B.

### INTRODUCTORY.

In the department are offered (1) courses in General Biology and Comparative Anatomy, which form the foundation for the study of Medicine, and which are strongly recommended to college students preparing to study Medicine (see p. 30, II, 1); (2) a course in Embryology, which is required of all medical students; and (3) advanced and research work for advanced special students.

During the Summer Quarter general courses in Zoölogy will be given at the University, at the Marine Biological Laboratory, Wood's Holl, Mass., and at the Biological Laboratory, Cold Spring Harbor, L. I. Provision will also be made for research students at these places.

### COURSES OF INSTRUCTION.

**Summer Quarter, 1901—Spring Quarter, 1902.**

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks.
Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

JUNIOR COLLEGE COURSES.

5. **General Biology.**—Lectures and demonstrations dealing with topics of a general biological nature, such as: protoplasm; taxonomy; distribution and comparative anatomy in their relation to evolution; the cell theory; sex; growth; reproduction; development; the biogenetic law; evolution of the nervous system and sense organs; habit and instinct; special adaptations; variation; heredity; theories of evolution.—Open to all University students.

Mj. Winter Quarter.

Lectures: Tues.–Fri.; 4:00.
Laboratory: 2 hrs. on Friday afternoon or Saturday morning.

ASSOCIATE PROFESSOR DAVENPORT.

With the coöperation of Professors Whitman, Donaldson, Loeb, Jordan, Lillie, Dr. Child, and others.

SENIOR COLLEGE COURSES.

15. **Comparative Anatomy of Vertebrata.**—Lectures, demonstrations and laboratory work. The comparative anatomy of Amphioxus, Cyclostomes, fishes, amphibia, reptiles, and birds.

Mj or DMj. Autumn Quarter.
ASSISTANT PROFESSOR LILLIE.

Prerequisite: *Courses 1, 2, and 3.*

16A. **Comparative Anatomy of Vertebrata** (*continued.*)—Mammalian Anatomy.

M or DM. First Term; Winter Quarter.
ASSISTANT PROFESSOR LILLIE.

16B. **General and Experimental Embryology.**

Mj. Summer Quarter.
MR. DOWNING.

M or DM. Second Term; Winter Quarter.
ASSISTANT PROFESSOR LILLIE.

Prerequisite: *Course 15.*

17. **Vertebrate Embryology.**—Lectures, demonstrations, and laboratory work. For medical and pre-medical students. Special arrangements are made for more advanced students.

Mj or DMj. Spring Quarter.
ASSISTANT PROFESSOR LILLIE.

The ADVANCED (GRADUATE) COURSES for special students are described in the announcements of the Department of Zoölogy.

---

## *XXIII. THE DEPARTMENT OF ANATOMY.*

### OFFICERS OF INSTRUCTION.

LEWELLYS F. BARKER, M.B., *Professor and Head of the Department of Anatomy.*
ALBERT CHAUNCEY EYCLESHYMER, PH.D., *Instructor in Anatomy.*
DONALD JOHN ARMOUR, A.B., M.B., *Instructor in Anatomy.*
JOSEPH MARSHALL FLINT, A.M., M.D., *Associate in Anatomy.*
PRESTON KYES, A.M., M.D., *Associate in Anatomy.*
IRVING HARDESTY, PH.D, *Assistant in Anatomy and Neurology.*
DEAN D. LEWIS, A.B., M.D., *Assistant in Anatomy.*
————————, *Assistant in Anatomy.*

### FELLOWS.

**1901-1902.**

DANIEL GRAISBERRY REVELL, M.B. LOUIS N. TATE, A.B.

### INTRODUCTORY.

The general outline of the work provided for in courses is as follows: During the First Term of the Autumn Quarter, Introductory Anatomy, Osteology and Histology are studied; in the Second Term of the same quarter Histology is continued, and Systematic Anatomy, including dissection, is begun; in the Winter

Quarter Splanchnology is taken up, and Systematic Anatomy, including dissection, is continued. In the Spring Quarter Neurology and Embryology are studied. The teaching is chiefly by means of laboratory work, under direction; but this may be supplemented by demonstrations, lectures, and recitations. During the Summer Quarter courses are given in Histology, Splanchnology, Osteology, and Neurology. Special courses for Physicians and Advanced Students are offered in the Summer Quarter; these include courses in the Anatomy of the Eye and Ear, Nose and Throat, and Pelvic Viscera. Research work is offered every quarter.

### COURSES OF INSTRUCTION.

#### Summer Quarter, 1901 — Spring Quarter, 1902.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

0. **Introductory Human Anatomy.** — An elementary course intended for beginners in human anatomy. Anatomical terms are defined; the elements of topographical anatomy are studied on the living human body and on the cadaver.

M. First Term, Autumn Quarter.
Lectures: Thurs., Fri., 2:00.
Recitation: Wed., 2:00.
Laboratory: Wed., Thurs., Fri., 3:00–5:00.

PROFESSOR BARKER AND ASSISTANTS.

1. **Histology and Cytology.**—This course begins with the study of the cell, its variations in form, its anatomy, and its proliferation, and then takes up the study of the fundamental or simple tissues as they are composed of various cells and cell elements.

Lectures, Demonstrations, and Laboratory work. Mj. Autumn Quarter.

Lectures: Thurs., Fri., 8:30.

Recitation: Sec. *a*, Mon., 8:30.
Sec. *b*, Mon., 11:00.

Laboratory: Thurs., Fri., 9:30–12:00.

DR. EYCLESHYMER, DR. HARDESTY, AND ASSISTANTS.

1A. **Histology and Cytology.**—A briefer course than Course 1.

Lectures, Demonstrations, and Laboratory work. M. First Term, Autumn Quarter.
Lectures: Thurs., Fri., 8:30.
Recitation: Sec. *a*, Mon., 8:30.
Sec. *b*, Mon., 11:00.
Laboratory: Thurs., Fri., 9:30–12:00.

DR. EYCLESHYMER, DR. HARDESTY, AND ASSISTANTS.

Repeated as M. First Term, Summer Quarter.
Lectures: Mon., Wed., 8:00.
Laboratory: Mon.–Wed., 9:00–11:30.

DR. HARDESTY.

2. **Splanchnology.**—The different Organs of the body are studied. Especial effort will be made to bridge the gap between gross and microscopic anatomy by extensive use of the dissecting microscope. ½Mj or Mj. Winter Quarter.

Lectures: Thurs., Fri., 8:30.
Recitation: Sec. *a*, Mon., 8:30.
Sec. *b*, Thurs., 12:00.

Laboratory: Thurs., Fri., 9:30–11:00.

PROFESSOR BARKER, DR. EYCLESHYMER, AND ASSISTANTS.

Prerequisite: *Course 1, or an equivalent.*

2A. **Splanchnology.**—This course covers the ground of Course 2, but is concentrated into one term.

M or DM. Second Term, Summer Quarter.
Lectures: Mon.–Thurs., 8:00.
Laboratory: Mon.–Fri., 9:00–12:30.

DR. EYCLESHYMER.

3. **Human Osteology.**—The bones of the human skeleton are studied, drawn, or modeled. The development of the osseous system in man and the differences in the skeletons in a series of animals are briefly dealt with.

M. First Term, Autumn Quarter.
Lectures: Mon., Fri., 12:00.
Recitation: Sec. *a*, Mon., 2:00.
Sec. *b*, Tues., 12:00.
Laboratory: Sec. *a*, Mon., Tues., 2:00–5:00.
Sec. *b*, Tues., Wed., 9:30–1:00.

DR. FLINT AND ASSISTANTS.

3A. **Human Osteology.** — The point of view in this course will be partly comparative and partly embryological. All of the bones in the human body will be either drawn or modeled in the laboratory.

M. First Term, Summer Quarter.
Lecture: Wed., 1:30.
Laboratory: Mon., Wed., Fri., 1:30–4:30.

MR. REVELL.

4, 5, 6. **Systematic Human Anatomy** (*Arm and Wall of Thorax, Leg and Abdomen, Head, Neck, and Thoracic Viscera*).—The courses include lectures, recitations, and laboratory work in the dissecting-room.

The lectures form a continuous course. Work may be begun in either the Autumn or Winter Quarter in any of the courses. 3Mjs or 3DMs.

*Lectures.*—The lectures advance in the order of *A*, *B*, and *C*.

*A*. Autumn Quarter, Second Term, Mon., Fri., 12:00.

*B*. Winter Quarter, Mon., Wed., Fri., 12:00.

*C*. Autumn Quarter, Second Term, Wed., Thurs., 8:30.

PROFESSOR BARKER, MR. ARMOUR,
DR. FLINT, AND DR. KYES.

*Recitations.*—The recitations advance in the order of *A*, *B*, and *C*.

*A*. Autumn Quarter, Second Term.
Sec. *a*, Tues., 2:00.
Sec. *b*, Wed., 2:00.
*B*. Winter Quarter. Sec. *a*, Mon., 2:00.
Sec. *b*, Tues., 12:00.
*C*. Autumn Quarter, Second Term.
Secs. *a* and *b*,
MR. ARMOUR, DR. KYES, DR. LEWIS,
AND MR. REVELL.

*Laboratory work.*

Autumn Quarter, Second Term (Beginners).
Sec. *a*, Mon.–Fri., 2:00–5:00.
Sec. *b*, Mon., Tues., 9:30–1:00; Wed.–Fri., 2:00–5:00.

Winter Quarter.
Sec. *a*, Mon.–Fri., 2:00–5:00.
Sec. *b*, Mon., Tues., 9:30–1:00; Wed.–Fri., 2:00–5:00.

Spring Quarter, First Term.
The laboratory is open for elective work.

Autumn Quarter (Advanced).
Sec. *a*, Mon.–Fri., 9:30–12:00.

Winter Quarter (Advanced).
Sec. *b*, Wed.–Fri., 8:30–12:00.
PROFESSOR BARKER, DR. FLINT,
AND ASSISTANTS.

The laboratories for dissecting are open every day from 8:30 A.M. to 6:00 P.M. (Saturdays till 1:00 P.M.), during the Second Term of the Autumn Quarter, during the Winter Quarter, and during the First Term of the Spring Quarter, and students are allowed to work extra hours in the laboratory at any time during these periods.

7. **Neurology.** — Elementary histology and microscopic anatomy of the nervous system and the sense organs. See Department XXV, Courses 3 and 3A, etc.

8. [Zoölogy 17] **Vertebrate Embryology.**—Lectures, demonstrations, and laboratory work.
Mj or DMj. Spring Quarter.
ASSISTANT PROFESSOR LILLIE.

9. **Seminar.** — A limited number of students can by special arrangement be admitted to a seminar, in which subjects of current interest in Gross or Microscopic Anatomy will be discussed.
1–2Mjs. Autumn and Winter Quarters.
Hours to be arranged.
PROFESSOR BARKER.

10. **Advanced Work and Original Research.** — Excellent opportunities are afforded for advanced work in all departments of Anatomy, and especially for original investigation in anatomical problems. Suitably trained and endowed students who have the time to undertake such work will be encouraged to do so. Those capable may work independently; a limited number can be led into such work under direction.
1–4Mjs. Autumn, Winter, Spring, and Summer Quarters.
PROFESSOR BARKER AND ASSISTANTS.

11. **Special Advanced Anatomy for Physicians and Advanced Students**: *Eye and Ear.*
DM. First Term, Summer Quarter.
PROFESSOR BARKER AND DR. FLINT.

12. **Special Advanced Anatomy for Physicians and Advanced Students**: *Nose and Throat.*
DM. First Term, Summer Quarter.
PROFESSOR BARKER AND DR. FLINT.

15. **Special Advanced Anatomy for Physicians and Advanced Students**: *Pelvic Viscera and Pelvic Floor.*
DM. First Term, Summer Quarter,
PROFESSOR BARKER AND DR. FLINT.

NOTE.—The work in Courses 10, 11, 12, and 15 will be largely independent. Material will be provided, and students will make special dissections under direction. Occasional lectures will be given as the work requires. The hours for these courses can be arranged to suit applicants.

13. **Histogenesis.** — The changes taking place in the elemental tissues from the blastogenic period to adult life. Certain tissues will be taken as types of the general problems of development and discussed from this point of view.

M. First Term, Summer Quarter.

Lectures and Laboratory: Thurs.–Sat., 8:00–11:30.

DR. EYCLESHYMER.

14. **Organogenesis.** — The changes in structure of certain organs from their appearance in the embryo, to adult life, will be followed in this course.

M. First Term, Summer Quarter.

Conference, Lectures, and Laboratory: Thurs.–Sat., 8:00–11:30. DR. FLINT.

Prerequisite for Courses 13 and 14: *A knowledge of the main facts of Embryology and Histology.*

16. **Histological Technique.**—The main methods of histological preparation. In the laboratory work students will prepare specimens by the various methods of fixing, hardening, staining, and sectioning now in general use.

M. First Term, Summer Quarter.

Lecture and Laboratory: Tues., Wed., Fri., 1:30–4:30.

PROFESSOR BARKER AND ASSISTANTS.

---

## *XXIV. THE DEPARTMENT OF PHYSIOLOGY.*

*(Including Physiological Chemistry and Pharmacology.)*

### OFFICERS OF INSTRUCTION.

JACQUES LOEB, M.D., *Professor and Head of the Department of Physiology.*
ELIAS POTTER LYON, PH.D., *Assistant Professor of Physiology.*
ALBERT PRESCOTT MATHEWS, PH.D., *Assistant Professor of Physiological Chemistry.*
DAVID JUDSON LINGLE, PH.D., *Instructor in Physiology.*
MARTIN FISCHER, M.D., *Associate in Physiology.*
——————, *Assistant in Pharmacology.*
——————, *Assistant in Physiological Chemistry.*

### FELLOWS.

1901-1902.

CHARLES HUGH NEILSON, A.M.
ARTHUR WHITE GREELEY, A.M.

### INTRODUCTORY.

The required or minimal work for medical students includes Courses 12, 13, and 14; it is distributed over three quarters, beginning in the Spring Quarter of the first year and extending over the Autumn and Winter Quarters of the second year. Included in the courses mentioned, one to two weekly conferences will be held in which students will have an opportunity to discuss the problems worked out in the laboratory. In these courses special attention will be given to the following points: (1) The student shall become familiar with the traditional and classical facts and experiments in Physiology; (2) the student will acquire sufficient knowledge of the recent advances and methods of Physiology to allow him to follow intelligently and accurately the changes necessitated by their probable bearing on medicine. For example, special attention will be given to the application of Physical Chemistry to physiological problems.

For students who have finished a year's work in Physiology and wish to specialize in certain branches of scientific or practical medicine, special quarterly courses will be offered. Such courses are, for example, the physiological effects of ions, Physiological Morphology, Theory of Space Sensations, Functions of the Cortex Comparative Physiology of the Central Nervous System, the Internal Secretion, etc. These courses consist chiefly of laboratory work.

## COURSES OF INSTRUCTION.

### Summer Quarter, 1901—Spring Quarter, 1902.

M=Minor course=a single course of six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks.
Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

### Junior College Courses.

1. **Introductory Physiology.**—The aim of this course is to familiarize the student with the structure and functions of the human body. Text-book: Martin's *Human Body.*

Mj. Summer Quarter; Mon.–Fri., 8:30.
Dr. Lingle.

Repeated in Autumn, Winter and Spring Quarters; 8:30. Dr. Lingle.

### Senior College Courses.

11. **Laboratory Course in Physiology.**

Mj. Summer Quarter; Wed.–Fri., 2:00–5:00.
Dr. Lingle.

Prerequisite: *A thorough knowledge of the main facts of Physiology.*

12. **Physiology of Nerves and Muscles, of Circulation and Respiration.** 1½ Mjs. Spring Quarter.

Lectures: Mon.–Wed., 12:00.
Professor Loeb.

Conferences: Thurs., Fri., 12:00.
Assistant Professor Lyon,
Dr. Lingle, and Dr. Fischer.

Laboratory:
Sec. *a*, Mon., 8:30–12:00, Tues., 9:30–12:00.
Sec. *b*, Wed.–Fri., 9:30–12:00.

Assistant Professor Lyon,
Dr. Lingle, and Dr. Fischer.

Prerequisite: *XIX–1, 2; XX–1, 2.*

Open to Rush Medical Students.

13. **General and Theoretical Physiology.**—Including the Physiology of Metabolism, Absorption, Secretion, and Heat. Mj. Autumn Quarter.

Lectures: Mon.–Wed., 12:00.
Professor Loeb.

Conference: Thurs., 12:00.
Assistant Professor Lyon,
Dr. Lingle, and Dr. Fischer.

Laboratory: Sec. *a*, Thurs., Fri., 2:00–5:00.
Sec. *b*, Mon., Tues., 2:00–5:00.

Assistant Professor Lyon,
Dr. Lingle, and Dr. Fischer.

14. **Physiology of the Central Nervous System and the Senses.** Mj. Winter Quarter.

Lectures: Mon.–Wed., 11:00.
Professor Loeb.

Laboratory: Thurs., Fri., 9:00–12:00.
Dr. Lingle.

15. **Special Physiology of Mammals.**—Including the repetition of classical experiments such as those on blood pressure, vaso-motor nerves, secretion, localization, with study of the original sources.

Mj. Autumn Quarter.

Hours to be arranged.

Assistant Professor Lyon
and Dr. Fischer.

Repeated Winter and Spring Quarters.

Prerequisite: *A knowledge of the main facts of Physiology.*

20. **Physiological Chemistry.**

Mj. or 1½ Mjs. Winter Quarter.

Lectures: Tues.–Thurs., 12:00.
Recitations: Sec. *a*, Fri., 12:00.
Sec. *b*, Wed., 2:00.
Laboratory:
Sec. *a*, Wed.–Fri., 8:30–12:00.
Sec. *b*, Mon.–Wed., 2:00–5:00.

Assistant Professor Mathews
and Assistants.

21. **Pharmacology.** Mj. Spring Quarter.

Lectures: Mon., Tues., 11:00.
Recitations: Sec. *a*, Wed., 11:00.
Sec. *b*, Thurs., 11:00.

Laboratory:
Sec. *a*, Mon.–Wed., 8:30–10:30.
Sec. *b*, Thurs., 8:30–11:00, Fri., 8:30–12:00.

Assistant Professor Mathews
and Dr. ————.

### Graduate Courses.

31. **The Physiological Effects of Ions.**

Mj. Autumn Quarter.

Lecture: Thurs., 12:00.
Laboratory: Wed.–Fri., 2:00–5:00.

Professor Loeb.

**32. Physiology of Space Sensations.**
Mj. Winter Quarter.
Lecture: Thurs., 11:00.
Laboratory: Wed.–Fri., 2:00–5:00.
PROFESSOR LOEB.

**33. Physiological Morphology, and Theory of Tropiscus.**
Mj. Spring Quarter.
Lecture: Thurs., 12:00.
Laboratory: Wed.–Thurs., 2:00–5:00.
PROFESSOR LOEB.

**41. Seminar.**—Throughout the year.
Thursday, 4:00–5:00.
PROFESSOR LOEB.

**42. Research Work in Physiology.**
DMj. Throughout the year.
PROFESSOR LOEB.

Graduate and Research courses in Physiological Chemistry and Pharmacology will be announced later.

---

## *XXV. THE DEPARTMENT OF NEUROLOGY.*

### OFFICERS OF INSTRUCTION.

HENRY H. DONALDSON, PH.D., *Professor and Head of the Department of Neurology.*
IRVING HARDESTY, PH.D., *Assistant in Neurology.*

### FELLOWS.

1901-1902.

SHINKISHI HATAI. CHARLES INGBERT, A.B.

### INTRODUCTORY.

The courses here offered are intended to furnish an account of the histology, microscopic anatomy, and architecture of the Nervous System such as will be required by Students of Anatomy and those preparing for Medicine or Psychology, and also to give the opportunity both for the investigation of new problems and for a critical discussion of current work in Neurology. Course 3, together with Courses 1 and 2 in the Department of Anatomy, constitute the required work in Histology and Microscopic Anatomy for those taking the first two years' work in Medicine.

### COURSES OF INSTRUCTION.

**Summer Quarter, 1901–Spring Quarter, 1902.**

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks.
Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

**1A. The Architecture of the Central Nervous System.** The construction of the Nervous system is described with a view to explaining the pathways of the nerve impulses within it.
DM. Second Term, Summer Quarter.
Lectures: Mon.–Thurs., 8:30.
Laboratory: 10 hrs. a week.
DR. HARDESTY
AND MR. HATAI.

**1. The Architecture of the Central Nervous System** = Course 1A.
Mj. Autumn Quarter.
Lectures: Mon., Tues., 9:30.
Laboratory: Thurs., Fri., 2:00–4:00.
PROFESSOR DONALDSON
AND DR. HARDESTY.
Prerequisite: *Microscopic Anatomy,*

**2. The Growth of the Brain and its Physical Characters as related to Intelligence.**
Mj. Winter Quarter
Lectures: Mon., Tues., 9:30.
Laboratory: Thurs., Fri., 2:00–4:00.
PROFESSOR DONALDSON.
Prerequisite: *Microscopic Anatomy.*

**3. Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs.** This course forms the last portion of a year's work in Histology and Microscopic Anatomy.
Mj. Winter Quarter.
Lectures: Mon., Tues., 8:30.
Recitation: Wed., 8:30.
Laboratory: Mon., 9.30–1:00; Tues., 9:30–12:00.
PROFESSOR DONALDSON
AND DR. HARDESTY.
Prerequisite: *Microscopic Anatomy.*

3A. **Comparative Histology of the Central Nervous System and Sense Organs.**—This course is supplementary to Course 3, and offers more histological work on lower vertebrates, special attention being given to the internal and external morphology of the neurons.

Mj. Spring Quarter.

Lectures: Mon., Tues., 8:30.

Laboratory: Mon., Tues., and Wed. forenoons.

DR. HARDESTY.

Prerequisite: *Elementary Histology.*

3B. **Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs** (repeated). See Course 3.

DM. First Term, Summer Quarter.

Lectures: Mon., Tues., 8:30.

Laboratory: 10 hrs. a week.

PROFESSOR DONALDSON, DR. HARDESTY, AND MR. HATAI.

4, 5, 6, 7. **Seminar.**—The purposes of the Seminar are threefold:

*a*) Initiation into the methods of research.
*b*) The history of the guiding conceptions in Neurology.
*c*) Discussion of such literature as is too technical for presentation at a general Journal Club.

3½Mjs. First Term Summer Quarter; Autumn, Winter, and Spring Quarters.

2 hrs. a week. Summer Quarter, Fri., 8:30; Autumn and Winter Quarters, Tues., 3:00–5:00; Spring Quarter, Thurs., 3:00–5:00.

PROFESSOR DONALDSON.

Admission to the Seminar is granted only after consultation with the head of the department.

8, 9, 10, 11. **Research Courses.—The Study of Neurological Problems.**

3½Mjs. First Term Summer Quarter; Autumn, Winter, and Spring Quarters. Laboratory work. Throughout the year.

PROFESSOR DONALDSON.

Prerequisite: *A knowledge of the main facts of Neurology.*

---

## *XXVIII. THE DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY.*

### OFFICERS OF INSTRUCTION.

LUDVIG HEKTOEN, M.D.. *Professor of Pathology and Head of the Department of Pathology and Bacteriology.*
EDWIN OAKES JORDAN, PH.D., *Associate Professor of Bacteriology.*
H. GIDEON WELLS, S.B., M.D., *Assistant in Pathology.*
WILLIAM BUCHANAN WHERRY, A.B., M.D., *Assistant in Bacteriology.*
————————————, *Assistant in Pathology.*

### FELLOW.

1901-1902.

MARY HEFFERAN, A.M. (Bacteriology).

### INTRODUCTORY.

The courses offered by the department include such as cover the required work in Pathology and Bacteriology in the curriculum of the first two years in the study of medicine, as well as advanced courses arranged for those desiring a more extended knowledge of the subjects, and for those wishing to qualify themselves for research.

The department possesses Leitz and Zeiss microscopes, each with three or two objectives and substage apparatus, microtomes, and all other necessary equipment for pathological and bacteriological work; abundant and properly lighted desk-room, with lockers, is provided. The Laboratory has access to a good museum for teaching purposes, and has a fairly ample special library containing complete files of the important serials. Sufficient material and apparatus for advanced work and special research are provided.

### COURSES OF INSTRUCTION

**Summer Quarter, 1901 — Spring Quarter, 1902.**

SENIOR COLLEGE COURSES.

1. **General Bacteriology.**— General aspects of Bacteriology. Laboratory practice in the essentials of bacteriological technique. Non-pathogenic organizations are first studied, and afterwards the pathogenic forms.

1½ Mjs. Autumn Quarter.

Lectures: Mon., Tues., 8:30.
Recitations: Sec. *a*, Wed., 2:00.
Sec. *b*, Wed., 3:00.

Laboratory: Sec. *a*, Mon., Tues., 2:00-5:00.
Sec. *b*, Wed., Fri., 8:30-10:30.

ASSOCIATE PROFESSOR JORDAN, DR. WELLS,
DR. WHERRY, AND ASSISTANTS.

1A. **Elementary Bacteriological Technique.**— General aspects of Bacteriology. Laboratory practice in the essentials of bacteriological technique.

Mj. or DMj. Summer Quarter; 2:00-5:00.
DR. WHERRY.

2. **Public Hygiene.**— The application of Bacteriology to municipal hygiene. Water supply, food supply, sewage disposal, etc.

Mj. Spring Quarter.
ASSOCIATE PROFESSOR JORDAN.

3 and 4. **General Pathology and Pathological Histology.**— A practical laboratory course is given in general pathologic histology, supplemented by experiment, by lantern demonstrations, and by the study of fresh and museum specimens, by recitations in general pathology, and by lectures.

1½ or 2Mjs. Winter and Spring Quarters,
PROFESSOR HEKTOEN, DR. WELLS,
AND ASSISTANTS.

Prerequisite: *Histology and Bacteriology.*

5A, 5B, and 5C. **Advanced Bacteriology.**

Mj. Autumn, Winter, and Spring Quarters.

Lectures on immunity and infection are given in connection with 5B.

ASSOCIATE PROFESSOR JORDAN
AND DR. WHERRY.

GRADUATE COURSES.

10. **Research in Pathology.**— Open to a limited number of specially qualified students and graduates in medicine.

Mj. or DMj. Each Quarter.

Hours arranged for each student.

PROFESSOR HEKTOEN
AND DR. WELLS.

11A, 11B, 11C. **Bacteriology.**— Research.

Mj. or DMj. Autumn, Winter, and Spring Quarters.

ASSOCIATE PROFESSOR JORDAN.

## GRADUATE COURSES IN MEDICINE FOR PHYSICIANS AND ADVANCED STUDENTS.

Special opportunities are afforded to physicians and graduate students for advanced and research work in Physics, Chemistry, Zoölogy and Embryology, Anatomy, Neurology, Physiology, Physiological Chemistry, and Pharmacology, and in Pathology and Bacteriology. Research work may be conducted independently, or under the direction of an instructor in the department to which it belongs.

Graduate students are admitted to such courses on the conditions stated on page 15, 2*a*.

Physicians are admitted on payment of the matriculation fee, and payment of fees in proportion to the amount of work taken (see p. 15, 2*d*). The applicant's fitness for any course which he desires to take, should be ascertained by consultation with the head of the respective department.

Courses especially adapted to students of this class are outlined in pages 19 to 29 of this *Bulletin*. Correspondence is invited in reference to special work other than the courses offered. It will be sufficient to address letters to the University of Chicago.

Students desiring to engage in work leading to the degrees of Master of Science, Master of Arts, Master of Philosophy, or to the degree of Doctor of Philosophy, are requested to write for the Circular of Information of the Graduate Schools.

## THE DEGREES OF S.B., A.B., AND Ph.B.

### I. MEDICAL WORK IN THE COURSES FOR THE BACHELOR'S DEGREES.

The first two years' work in medicine consists almost entirely of courses in pure science, which are open as electives to all candidates for a bachelor's degree at the University, who have had the necessary preliminary work in science.

*Medical Work in the Course for Bachelor of Science.*—A student who has completed the work of the Junior College of Science (two years) at the University or the second year at a college of good standing, whose credits are accepted as a full equivalent of the corresponding courses at the University, may enter the Senior College (first year) at the University and take the first two years' work in medicine as the third and fourth year of his bachelor's course, and, provided he also takes the specified required courses (three courses in History and Philosophy) of the Senior College of Science, either in an extra quarter or as extra work during three quarters, receive the degree of S.B. on the completion of the second year's work in Medicine.

For the completion of the required work for the degree of S.B. and of the first two years in medicine, a student will need, altogether, from four to four and a half years, after entering the Junior College (Freshman year), or two to two and a quarter years after entering the Senior College (Junior year), depending on the amount of work he carries per quarter.

Candidates for the S.B. degree who intend to study medicine are strongly advised to take in their first two years at college (Freshman and Sophomore years) a large amount of work in Physics, Chemistry, and Biology, as giving the best foundation for the study of medicine (see below recommended course of study for students preparing to study medicine).

*Medical Work in the Course for the Bachelor of Arts or Philosophy.*—A student who has completed the work of the Junior College of Arts or Philosophy (two years) at the University of Chicago or the Sophomore year at a college of good standing, whose credits are accepted by the University as a full equivalent of the corresponding courses, may enter the Senior College (first year) at the University and take from one to one and a half years' work in medicine as part of his bachelor's course and, provided he also takes the required work of the Senior College of Arts or Literature (four courses), receive the degree of A.B. or Ph.B. on the completion of two years' work in college. The remainder of the medical work of the first two years may be taken after graduation and with all the privileges of graduate students.

For the completion of the required work for the degree of A.B. or Ph.B. and of the first two years, work in medicine a student will need from four and a half to five years after entering the first year of the Junior College, or two and a quarter to three years after entering the Senior College (Junior year) of the University of Chicago.

Candidates for the A.B. or Ph.B. degree who intend to study medicine are strongly advised to take in their first three years at college a large amount of work in Physics, Chemistry, and Biology as giving the best foundation for the study of medicine (see below, recommended course of study for students preparing to study medicine).

*For information in detail regarding the requirements for the bachelor's degrees at the University of Chicago see the Circular of Information for the Colleges, pp. 12–19.*

### II. COURSE OF COLLEGE STUDIES RECOMMENDED FOR STUDENTS PREPARING TO STUDY MEDICINE.

1) The College studies which are recommended for students preparing to study medicine are as follows:*

**English,** 3 Majors; **French or German,** 3 Majors (a reading knowledge in each language must be obtained from these courses and those offered for admission to College); **Mathematics,** 2 Majors; **History,** 2 Majors; **Philosophy,** 1 Major †; Physics, 3 Majors; Chemistry, 5 to 6 Majors: General Chemistry, Qualitative Analysis, Organic Chemistry; General Biology, 1 Major; Comparative Anatomy, 1 or 2 Majors.

These twenty-one (21) to twenty-four (24) Majors will require seven (7) to eight (8) quarters for completion. The History and Philosophy, or part of the Chemistry or Biology, may be taken during the time that the student is doing his first two years' work in medicine.

2) For students who wish to devote three years in college in preparing for medicine before entering on medical work proper, the following courses are recommended for the choice of additional electives: Greek, 3 Majors; Calculus, 1 Major; Elementary Botany, 1 Major, Course 1; General Morphology of Thallophytes, 1 Major, Course 7; Introductory Physiology, 1 Major, Course 1; Physical Chemistry, 1 Major, half-Major Courses 31 and 32 or Course 23; Quantitative Chemical Analysis, 1 Major, Course 9; Physiography, 1 Major.

---

* The required courses for the S.B. degree are given in **bold-faced type**; the courses recommended to be chosen as electives are given in common type.

† Latin (3 Majors) is required if only two units of Latin have been offered for admission to college.

## REQUIREMENTS FOR GRADUATION IN RUSH MEDICAL COLLEGE

### (IN AFFILIATION WITH THE UNIVERSITY OF CHICAGO).

The following are the requirements for the degree of Doctor of Medicine:

The candidate must not be less than twenty-one years of age, and must have studied medicine for four years. He must have paid all dues, must have complied with all the requirements, and must have maintained unexceptional conduct while at the College.

He must have attended twelve full quarters or an equivalent amount of time in a recognized medical school, of which at least the last three quarters must have been in this institution, and forty-five months must have elapsed between the beginning of his first course of medical lectures and the date of his graduation.

He must have completed, successfully, all of the work required, as follows:

Eighteen Majors of work in the Freshman and Sophomore years, comprising a minimum of 5 Majors in Anatomy, including gross, and microscopic Anatomy, Human Dissection (one lateral half of the human body), Neurology, and Embryology; 3½ Majors in Physiology, including Physiological Chemistry; 2 Majors in Chemistry; 1 Major in Pharmacology; 2½ Majors in Pathology, including Bacteriology; 4 Majors additional work in one or more of these departments of his choice.

Twenty-two Majors of work in the Junior and Senior years, comprising a minimum of 1½ Majors in Therapeutics and Preventive Medicine; 1 Major in Pathology; 4 Majors in Medicine; 5 Majors in Surgery; 3 Majors in Obstetrics and Gynecology; 1½ Majors in Diseases of the Chest, Throat, and Nose; ½ Major in Diseases of the Eye and Ear; ½ Major in Skin and Venereal Diseases; 4 additional Majors in any branch or branches of his choice.

He must have passed, successfully, a final examination, both written and practical, in each of the separate branches mentioned in the two preceding paragraphs.

---

## FELLOWSHIPS AND SCHOLARSHIPS.

1. *The University Fellowships.* The University appropriates annually the amount of twenty thousand dollars ($20,000) for Fellowships in the Graduate Schools. These Fellowships are awarded by the Trustees upon the recommendation of the President and the nomination of a particular department to graduate students who desire to specialize. Each year about seventy fellowships are assigned, ranging in individual value from $120, or the tuition fees of a student for three quarters, to $520.
2. *Applications for Fellowships.* Applications for fellowships should be made on blanks prepared for the purpose and sent, on request, by the President of the University. *Applications for fellowships for the ensuing year should be* addressed to the President of the University, *and should be in his hands on, or before March 1.* Each application should be accompanied by:
    1) A brief sketch of the life and work of the applicant.
    2) Any theses or papers of a scientific character which have been prepared by the applicant whether printed or otherwise.
    3) Letters or testimonials from former instructors in regard to the applicant's attainments in the particular subject in which he applies for a fellowship.
4. *Appointments to Fellowships.*
    1) *Date.* The annual assignment of fellowships is made at the Spring Convocation in the middle of March. A fellowship is available for any three of the four quarters after July 1 following the date of appointment.
    2) *Attainments Required.* The candidate must have attained proficiency in some department. In general he should have spent at least one year in resident study after receiving his Bachelor's degree. In making the appointment special weight is given to theses indicating the candidate's ability to conduct original investigation.
5. *Statute regarding Fellowships.*

The University Statute regarding Fellowships reads.

Statute 25. *Fellowships.* The Fellowships of the University are assigned solely on the ground of proficiency already attained in a given department

The Fellow is expected to give one sixth of his time to some service in connection with the University. He is not permitted while holding a Fellowship to do work of any kind for which he receives remuneration. without the permission of the President.

6. *Duties of Fellows.* The service mentioned in the Statute consists of work *a*) as an instructor, either in the colleges of the University or in affiliated colleges; *b*) as an assistant in reading examination papers; *c*) as an assistant on a University journal; or *d*) as an assistant in one of the departmental libraries, laboratories, or museums. In no case will a student be expected or allowed, to devote so much time to the work here indicated as to interfere seriously with his study.

7. *Reports.* Each Fellow makes to the President at the beginning of each quarter, a written report, endorsed by the head of his department, indicating the courses chosen by him as a student and the work assigned to him as an officer of the University, for the current quarter and for the previous quarter.

8. *Special Fellowships.* In addition to the regular University Fellowships mentioned above, there are special Fellowships offered by individuals. These vary somewhat in number and amount from year to year. At present they are as follows:

   1) The *William A. and Fanny C. Talcott Fellowships and Scholarships.* In 1896 Wm. A. Talcott, of Rockford, Ill., endowed four Fellowships and Scholarships, two of which bear his name and two the name of his wife, Fanny C. Talcott. They are intended primarily for the benefit of graduates of the Rockford College, but in the absence of such beneficiaries may be assigned to others. They pay the tuition fees of those appointed to them.

   2) The *Bucknell Fellowship,* yielding $400, offered by Mr. Charles Miller, Franklin, Pa., is open to graduates of Bucknell University. The appointment to this fellowship is made by the Faculty of Bucknell University.

   3) The *Joseph B. Loewenthal Fellowship in Chemistry* endowed by Mr. Berthold Loewenthal of Chicago as a memorial of his son Joseph B. Loewenthal. It yields about $420 to the incumbent annually appointed, and is awarded on the nomination of the Department of Chemistry and the recommendation of the President of the University.

9. *Graduate Scholarships.* The Scholarships available for students in the Graduate Schools are as follows:

   1) *Scholarships for Excellence in the Work of the Senior Colleges.*—The University offers twenty Scholarships for excellence in the work of the Senior Colleges. The scholarships are assigned annually, in the Spring Quarter, on the nomination of the Faculty of the Senior Colleges. Each department of the University, with the approval of the Committee on Scholarships, has the privilege of naming a student who is for that year the honor student of the Senior Colleges in that department, and to this student there is given a Graduate Scholarship yielding in each case a sum equal to the University tuition fees for three quarters ($120) provided the student continues his studies in the Graduate Schools.

   2) *The William A. and Fanny C. Talcott Fellowships and Scholarships.*—See under Fellowships.

   3) *Affiliation Scholarships.*—Under the conditions Affiliation with Kalamazoo College, Des Moines College, Butler College, and John B. Stetson University, the three students who stand highest in scholarship and general excellence in each graduating class are awarded scholarships covering the University tuition fees for three quarters ($120). Under this arrangement the University offers:

      Three Scholarships to graduates of Kalamazoo College.

      Three Scholarships to graduates of Des Moines College.

      Three Scholarships to graduates of Butler College.

      Three Scholarships to graduates of John B. Stetson University.

   4) *Scholarships for Teachers in Affiliated Schools* Under the conditions of affiliation teachers in the various Affiliated Schools of the University are assigned Scholarships covering the tuition fee. The conditions under which these Scholarships may be obtained will be mailed on application.

   5) *Scholarships for Public Speaking.* — THREE SCHOLARSHIPS, each yielding the amount of thirty-five dollars ($35) toward the tuition fee

for a quarter, are awarded the winners in the preliminary contests in public speaking. In case the winner in a preliminary contest has previously secured a scholarship in this way in the Graduate Schools, the award is made to the second in rank.

6) *Scholarships for Officers.*—FORTY SCHOLARSHIPS, each yielding the tuition fees for three quarters ($120), are assigned annually to members of the faculties, or wives of members, who may desire to take courses of instruction in the University.

## FELLOWSHIPS, HOSPITAL INTERNES, AND PRIZES

### (RUSH MEDICAL COLLEGE)

### FELLOWSHIPS.

The following Fellowships, each of the value of four hundred dollars annually, are awarded each year: one in chemistry, two in pathology, one in medicine, and one in surgery.

The Fellowships are awarded to graduates in medicine recognized as in every way best qualified for the positions. Each Fellow devotes the year succeeding his appointment to original investigation under the direction of the professor of the department in question in the laboratories of the College. He is required to devote some time of each day in the College year to the instruction of students, and has opportunity to attend the clinics and pursue other lines of collegiate study.

### HOSPITAL INTERNES.

Positions as internes in the Presbyterian, the Cook County Hospital, the Michael Reese Hospital, the St. Joseph Hospital, the St. Elizabeth's Hospital, the St. Luke's Hospital, the Augustana Hospital, the Chicago Hospital, the Alexian Brothers Hospital, the Passavant Hospital, the Chicago Polyclinic, the German Hospital, the Norwegian Hospital, the Illinois Charitable Eye and Ear Infirmary, and in a much larger list of institutions outside of the city of Chicago which make appointments from the roll of qualified students of the Senior class in Rush Medical College, are open each each spring to graduates through a competitive examination held by the respective hospital staffs.

The occupants of these positions receive their board and lodging, and acquire experience in every department of practical medicine and surgery.

### PRIZES.

#### THE BENJAMIN RUSH PRIZE.

A medal of the value of fifty dollars is given by the Faculty at each Commencement to that member of the graduating class who passes the highest examination in every department of medicine represented that year in the examination for the degree.

#### THE DANIEL BRAINARD PRIZE.

A medal is annually given by the Faculty to the student who makes and presents to the College Museum the best accepted dissection in Surgical Anatomy.

#### THE FREER PRIZES.

These prizes are derived from the income of a fund presented to the College by the late Nathan M. Freer, of the Board of Trustees, as a memorial of the names of two honored members of his family long identified with the highest interests of this institution.

The J. W. Freer Medal is awarded as a first prize to that member of the Junior class who presents the best written essay on one of the themes annually announced for competition to that class. A second prize is awarded to the next successful competitor. The three subjects from which selections may be made, one of which only can be chosen by each competitor, are announced to the class early in the collegiate year, the essays being submitted to the Faculty on the first of the ensuing April. The subjects for competition for the session of 1901–2 will be given by the Department of Medicine.

The L. C. P. Freer Medal is offered for the year 1901–2 as a first prize to that member of the Sophomore class who presents the best essay on any subject connected with anatomy. Students should consult the Professor of Pathology in regard to selection of topic for this prize. A second prize is awarded to the next most successful of the competitors. *This prize will be competed for by students in the medical course of the University.* The essays are required to be placed in the hands of the Faculty by April 1902.

#### THE EDWARD L. HOLMES PRIZE.

In honor of the late Edward L. Holmes, for many years the professor of Diseases of the Eye and Ear in Rush Medical College, and for several years its president, and who during his long career rendered distinguished services to the institution, the trustees have established the Edward L. Holmes prize for original research, to consist of a table and scholarship for one season, at the Marine Biological Laboratory at Wood's Holl, Mass.

This prize is offered in recognition of the great service which is rendered to the medical sciences by research work in biology. The prize will be offered each year to members of the Junior class, and will be awarded for the best piece of work in original research performed in any of the laboratories of Rush Medical College. The recipient of the prize will defray his personal expenses.

### The Delaskie Miller Prize.

This prize is annually given to the student who does the best work in obstetrics and gynecology.

## MEDICAL SOCIETIES.

The fact that a very large number of medical men practice in Chicago has led to the development of a number of medical societies, general and special. Among the more interesting to medical students in the early years of their course is the Chicago Pathological Society. A large number of clinical societies, notably the Chicago Medical Society and its various branches, will interest the student particularly in the later years of his course.

The University of Chicago Medical Club meets on the first and third Monday evenings of each month in the amphitheater of the Kent Chemical Laboratory at 8:15 sharp. At the meetings of this society the advanced work and original research of the various laboratories will be reported, and topics of general medical and scientific interest will from time to time be discussed. The meetings will be open to medical students. The society holds no meetings during the Summer Quarter.

# CALENDAR FOR THE YEAR 1901–1902.

---

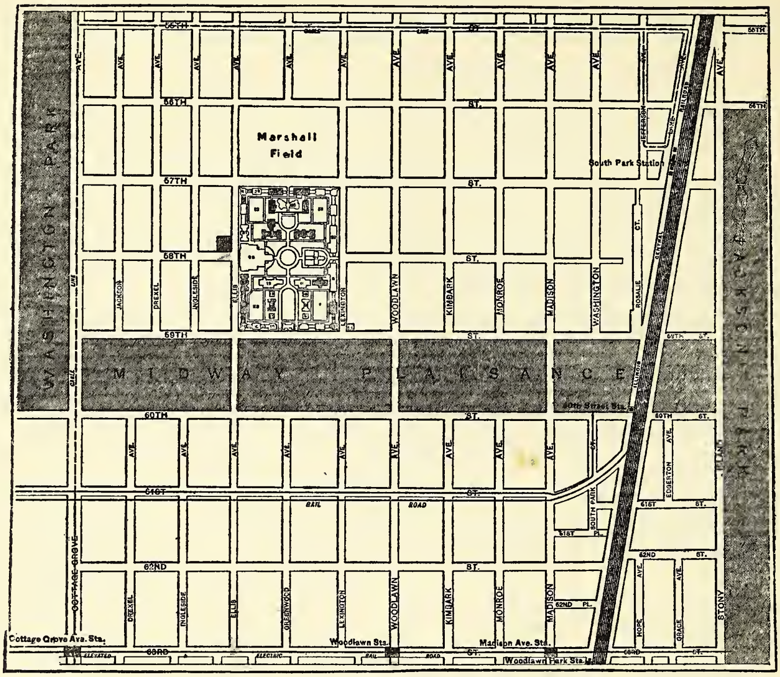
THE MEETINGS OF THE BOARD OF TRUSTEES ARE HELD ON THE SECOND TUESDAY OF EACH MONTH.

| | | |
|---|---|---|
| June 14 | Friday | Junior College Day. |
| June 15 | Saturday | Class and Alumni Day. |
| June 17 | Monday | Matriculation and Registration of incoming students.<br>Summer Meeting of the *University Congregation.* |
| June 18 | Tuesday | Founder's Day. — Summer Meeting of the *University Convocation.* |
| June 19 | Wednesday | First Term of Summer Quarter begins.<br>Lectures and Recitations for the Summer Quarter begin. |
| June 21 | Friday | Examinations for Admission to the Junior Colleges. |
| June 22 | Saturday | |
| June 24 | Monday | |
| June 25 | Tuesday | |
| June 23 | Sunday | The Congregation Sermon. |
| July 4 | Thursday | Independence Day; a holiday. |
| July 26 | Friday | Examinations for the First Term of the Summer Quarter.<br>First Term of Summer Quarter ends |
| July 27 | Saturday | Second Term of Summer Quarter begins. |
| Aug. 30 | Friday | Examinations for Second Term of the Summer Quarter.<br>Autumn Meeting of the *University Congregation.* |
| Aug. 31 | Saturday | Autumn Meeting of the *University Convocation.*<br>Second Term of Summer Quarter ends. |
| Sept. 1–30 | | Summer Recess. |
| Sept. 20 | Friday | Autumn Examination for admission to the *Junior Colleges.* |
| Sept. 21 | Saturday | |
| Sept. 23 | Monday | |
| Sept. 24 | Tuesday | |
| Oct. 1 | Tuesday | First Term of Autumn Quarter begins.<br>Matriculation and Registration of incoming students. |
| Nov. 11 | Monday | First Term of Autumn Quarter ends. |
| Nov. 12 | Tuesday | Second Term of Autumn Quarter begins. |
| Nov. 28 | Thursday | Thanksgiving Day; a holiday. |
| Nov. 29 | Friday | A holiday. |
| Dec. 3 | Tuesday | Registration of resident students for the Winter and Spring Quarters. |
| Dec. 4 | Wednesday | |
| Dec. 5 | Thursday | |
| Dec. 6 | Friday | |
| Dec. 13 | Friday | Winter Examination for admission to the *Junior Colleges.* |
| Dec. 14 | Saturday | |
| Dec. 16 | Monday | |
| Dec. 17 | Tuesday | |
| Dec. 15 | Sunday | Convocation Sunday. |
| Dec. 16 | Monday | Winter Meeting of the *University Congregation.* |
| Dec. 17 | Tuesday | Winter Meeting of the *University Convocation.* |
| Dec. 18 | Wednesday | Quarterly Examinations. |
| Dec. 19 | Thursday | |
| Dec. 20 | Friday | |

| | | |
|---|---|---|
| Dec. 20 | Friday | Second Term of Autumn Quarter ends. |
| Dec. 21–31 | | Quarterly Recess. |
| Jan. 1 | Wednesday | New Year's Day; a holiday.<br>First Term of Winter Quarter begins. |
| Jan. 2 | Thursday | Matriculation and Registration of incoming students. |
| Jan. 5 | Sunday | The Congregation Sermon. |
| Feb. 11 | Tuesday | First Term of Winter Quarter ends. |
| Feb. 12 | Wednesday | Second Term of Winter Quarter begins.<br>Lincoln's Birthday; a holiday. |
| Feb. 22 | Saturday | Washington's Birthday; a holiday. |
| Mar. 1 | Friday | Last Day for receiving applications for fellowships. |
| Mar. 16 | Sunday | Convocation Sunday. |
| Mar. 17 | Monday | Spring Meeting of the *University Congregation.* |
| Mar. 18 | Tuesday | Spring Meeting of the *University Convocation.*<br>Annual Assignment of *Fellowships.* |
| Mar. 19 | Wednesday | Quarterly Examinations. |
| Mar. 20 | Thursday | |
| Mar. 21 | Friday | |
| Mar. 21 | Friday | Second Term of Winter Quarter ends. |
| Mar. 22–31 | | Quarterly Recess. |
| April 1 | Tuesday | First Term of Spring Quarter begins.<br>Matriculation and Registration of incoming students. |
| April 6 | Sunday | The Congregation Sermon. |
| May 12 | Monday | First Term of Spring Quarter ends. |
| May 13 | Tuesday | Second Term of Spring Quarter begins. |
| May 30 | Friday | Memorial Day; a holiday. |
| June 3 | Tuesday | Registration of resident students for the Summer and Autumn Quarters. |
| June 4 | Wednesday | |
| June 5 | Thursday | |
| June 6 | Friday | |
| June 12 | Thursday | Quarterly Examinations. |
| June 13 | Friday | |
| June 14 | Saturday | |
| June 15 | Sunday | Convocation Sunday. |
| June 16 | Monday | Alumni Day.<br>Summer Meeting of the *University Congregation.* |
| June 17 | Monday | Summer Meeting of the *University Convocation.*<br>Second Term of Spring Quarter ends. |
| June 20 | Friday | Summer Examination for admission to the *Junior Colleges.* |
| June 21 | Saturday | |
| June 23 | Monday | |
| June 24 | Tuesday | |
| June 24 | Tuesday | Annual Meeting of the Board of Trustees. |

7532-10,000-5-01

## MAP OF THE IMMEDIATE VICINITY OF THE UNIVERSITY.



*The University is situated on the Midway Plaisance, between Ellis and Lexington Avenues, and can be reached by the Cottage Grove Avenue cable cars (from Wabash Avenue), by the Illinois Central Railroad to South Park Station, or by the Sixty-third Street electric cars from the Englewood railway stations.*

*A Baggage Express Company and the Western Union Telegraph Company have offices at the University.*

*The telephone number of the University is Oakland–426.*

*It will be sufficient to address any correspondence relating to the work of the University to*

**THE UNIVERSITY OF CHICAGO,**
**Chicago, Illinois.**

Printed by the University of Chicago Press,
57th Street and Lexington Av., Chicago, Ill.

Recorder's File Do not take away.

# THE UNIVERSITY RECORD

OF

THE UNIVERSITY OF CHICAGO

FOUNDED BY JOHN D. ROCKEFELLER

*PUBLISHED WEEKLY BY AUTHORITY*

Vol. VI JULY 26, 1901 WHOLE NUMBER 17
MONTHLY NUMBER 4

## MEDICAL NUMBER 10

## CONTENTS

The New Departure in Medical Instruction: Aim and Outlook

The Point of View of the University and of Rush Medical College

The Senn Clinical Building: Extra-Mural Clinics

Publications of the Faculty of Rush College for 1900–1901

University Congregation: Twenty-fifth Meeting

(The Detailed Table of Contents will be found upon the first inside page)

CHICAGO
The University of Chicago Press

ANNUAL SUBSCRIPTION
ONE DOLLAR

SINGLE COPIES
FIVE CENTS

ENTERED IN THE POST OFFICE OF CHICAGO AS SECOND-CLASS MATTER

Their Favorite

# Quaker Oats

No other food makes children so round and rosy.

Unlike Wheat Foods, which are composed almost entirely of Starch, Quaker Oats contains plenty of Protein for tissue and muscle, enough Fat for reserve force, and sufficient Mineral Matter to build up and maintain the bony structure, the teeth and the hair. Cook it exactly according to directions on package. ***At all Grocers. In 2-lb. Packages only, with Quaker Figure.***

F.S.

PAUL E DERRICK AGENCY

# TABLE OF CONTENTS.

I. THE MEDICAL NUMBER OF THE UNIVERSITY RECORD - - - - - - - - - 151
II. THE AIM AND OUTLOOK - - - - - - - - - - - - - - - 151–152
III. THE TRANSFER OF THE TWO CLASSES FROM THE VIEW-POINT OF THE UNIVERSITY - - - 152–156
IV. THE TRANSFER OF THE TWO CLASSES FROM THE COLLEGE VIEW-POINT - - - - - 156–157
V. THE SENN CLINICAL BUILDING - - - - - - - - - - - - - 157–159
VI. THE NEW EXAMINATIONS AND THE NEW DIPLOMA - - - - - - - - - 159–160
VII. ORIGINAL RESEARCH - - - - - - - - - - - - - - - - - 160
VIII. THE LIBRARY - - - - - - - - - - - - - - - - - 161
IX. HOSPITAL-WARD TEACHING - - - - - - - - - - - - - - 161–162
X. EXTRA-MURAL CLINICS - - - - - - - - - - - - - - - 162–163
XI. THE ALUMNI OF RUSH COLLEGE - - - - - - - - - - - - - 163–164
XII. STUDENTS' MEDICAL SOCIETY - - - - - - - - - - - - - - 164–165
XIII. LIST OF PUBLICATIONS OF THE FACULTY OF RUSH COLLEGE, 1900–1901 - - - - - 165–171

XIV. THE UNIVERSITY FACULTIES - - - - - - - - - - - - - - 171–173
XV. OFFICIAL NOTICES - - - - - - - - - - - - - - - - 173–174
XVI. THE UNIVERSITY CONGREGATION — TWENTY-FIFTH MEETING - - - - - - - - 174–175
XVII. CURRENT EVENTS - - - - - - - - - - - - - - - - 175–176
XVIII. THE ALUMNI - - - - - - - - - - - - - - - - - 176–177
XIX. OFFICIAL REPORTS: THE LIBRARY - - - - - - - - - - - - - 178

Full information respecting the Medical Courses in Rush Medical College is contained in the Bulletin of the Medical Courses of the University of Chicago, and the Annual Announcement of the College, either of which will be sent on application to

Rush Medical College, Wood and Harrison streets, Chicago.

# The Journals of the University of Chicago

BEING THE DESCRIPTIVE LIST OF FIVE MONTHLY, ONE WEEKLY, ONE BI-MONTHLY, THREE QUARTERLY, AND ONE SEMI-QUARTERLY PUBLICATIONS

## THE BIBLICAL WORLD

Edited by President W. R. HARPER. A popular illustrated monthly magazine. Subscription price, in the United States, $2.00 a year; foreign, $2.50; single copies, 20 cents.

The *Biblical World* is devoted exclusively to biblical study, and so edited and illustrated as to afford the greatest aid to the busy clergyman, the progressive Sunday-school teacher, and the thinking layman.

## THE SCHOOL REVIEW

Published monthly, except in July and August. Subscription price, in the United States, $1.50 a year; foreign, $2.00; single copies, 20 cents.

So adequately has the *School Review* served the interests of High School and Academy work that it has come to be recognized as the official organ of secondary education in the United States. It is devoted exclusively to this field, is progressive, practical, and helpful, and is indispensable to every teacher.

## THE BOTANICAL GAZETTE

Edited by JOHN M. COULTER. Published monthly, with illustrations. Subscription price, in the United States, $4.00 a year; foreign, $4.50; single copies, 50 cents.

The *Botanical Gazette* is an illustrated monthly journal devoted to botany in its widest sense. For more than twenty years it has been the representative American journal of botany, containing contributions from the leading botanists of America and Europe.

## THE AMERICAN JOURNAL OF SOCIOLOGY

Edited by ALBION W. SMALL. Published bi-monthly, with illustrations. Subscription price, in the United States, $2.00 a year; foreign, $2.50; single copies, 35 cents.

The special aim of the *American Journal of Sociology* is to show that the "social problem" is both many problems and one problem. It has already made itself indispensable to Americans who are trying to keep informed about the general tendencies in the rapidly changing field of sociology.

## THE AMERICAN JOURNAL OF SEMITIC LANGUAGES AND LITERATURES

Edited by President WILLIAM R. HARPER. Published quarterly. Subscription price, in the United States, $3.00 a year; foreign, $3.25; single copies, 75 cents.

The object of this journal is to encourage the study of the Semitic languages and literatures, to furnish information concerning the work of Semitic students at home and abroad, and to act as a medium for the publication of scientific contributions in those departments. Articles are published in the German, French and Latin, as well as in English.

## THE JOURNAL OF GEOLOGY

Edited by T. C. CHAMBERLIN. Published semi-quarterly, with illustrations. Subscription price, in the United States, $3.00 a year; foreign, $3.50; single copies, 50 cents.

Devoted to the interests of geology and the allied sciences, and contains articles covering a wide range of subjects. Adapted to young geologists, advanced students, and teachers.

## THE ASTROPHYSICAL JOURNAL

Edited by GEORGE E. HALE. Published monthly, except in February and August, with illustrations. Subscription price, in the United States, $4.00 a year; foreign, $4.50; single copies, 50 cents.

An international review of spectroscopy and astronomical physics. Invaluable to all who are interested in astronomy and astrophysics.

## THE JOURNAL OF POLITICAL ECONOMY

Edited by J. LAURENCE LAUGHLIN. Published quarterly. Subscription price, in the United States, $3.00 a year; foreign, $3.40; single copies, 75 cents.

This publication promotes the scientific treatment of problems in practical economics, and also contains contributions on topics of theoretical and speculative interest.

## THE AMERICAN JOURNAL OF THEOLOGY

Edited by the Divinity Faculty of the University of Chicago. Published quarterly. Subscription price, in the United States, $3.00 a year; foreign, $3.50; single copies, 75 cents.

The only journal in the world so catholic in its scope as to cover the entire field of modern investigation and research in all the different lines of theological thought represented by special fields and particular schools.

## THE ELEMENTARY SCHOOL TEACHER AND THE COURSE OF STUDY

Edited by FRANCIS W. PARKER. Published monthly except in August and September. Subscription price, in the United States, $1.50 a year; foreign, $2.00; single copies, 20 cents.

A monthly periodical for teachers and parents. Each number contains practical plans for teaching in every grade from the kindergarten through the high and pedagogic schools.

## THE UNIVERSITY RECORD

Edited by the Recorder of the University. Published weekly on Fridays at 3:00 P. M. Yearly subscription, $1.00; single copies, 5 cents.

The *University Record* is the official weekly publication of the University of Chicago. A special monthly number, enlarged in size, is issued each month.

---

**SAMPLE COPIES FREE ON REQUEST**

**Address, THE UNIVERSITY OF CHICAGO PRESS, CHICAGO, ILL.**

VOLUME VI

WHOLE NUMBER 17
MONTHLY NUMBER 4

# UNIVERSITY RECORD

FRIDAY, JULY 26, 1901

## THE MEDICAL NUMBER OF THE UNIVERSITY RECORD.

On June 15, 1900, the University Record devoted an entire issue to the interests of medical instruction, and particularly of Rush Medical College and its relations to the University of Chicago.

The excellent results of this experiment were demonstrated in so many ways that the Faculty has coöperated again in the issuance of the present number. The paragraphs which follow, written by the several members of the Faculty of the College and of the University, relate, as will be seen, to the many and important changes which have been made during the year of instruction ending with the Spring Quarter of 1901, including the transfer of what has been called the Junior Medical College to the University, the erection of a new Clinical Building on the college grounds, a new system of examination, the enlargement of the field for original research, the very important extension of the college system of instruction by extra-mural teaching, and other details set forth in the pages which follow.

Hereafter it is probable that the College will issue annually a spring or summer number of the Record, devoted to the common interests of the University and the College.

## THE AIM AND OUTLOOK.

Is the loftiness of the aim a guarantee of the outcome?

If only we might have an outlook wide enough to estimate all the related needs of the near future!

We feel so confident of our purpose, so assured of the final soundness of our plan, that it is not possible to share the reservations of our critics as to the wisdom of the change that has been effected.

We have critics, logical, intelligent men, who, in all probability unknowingly, misstate our aim. "Let us educate *physicians*, not scientists," they cry; and at once there is a ripple of sympathy in the air. The phrase is striking; the thought is attractive; above all, the antithesis appeals to popular prejudice. And then its work is done — it has no meaning.

"Let us educate," we say, "physicians, scientists, whatever we may, but let us *educate*" — that is the aim.

Has it ever been done too well? Have the foundations of scientific thought, observation, comprehension, ever been laid too firmly?

The fact is that the evolution of the medical school has made it possible to do work only indifferently. We need not apologize for the necessary weakness of our craft. In consideration of the burdens under which medical schools have struggled, the work has been marvelous. But it is idle to contend that the fundamental work has been satisfactory. We know that is not so, and our purpose is to remedy, so far as may be, the weakest feature of the medical curriculum. And what may that be? Physiology? Chemistry? Anatomy? No one of these; perhaps all of them; but, at the root, bad method, hasty, superficial work. That it is which we must correct, and to that end all our energies should bend. Deliberate, thorough work is what we offer to our lower classes, under ideal conditions, with adequate facilities, and with all the impetus of scientific enthusiasm.

Can the outlook fail to be reassuring? Have we not the right to believe that the best-equipped men will be the product? And, if so, is not the end attained?

The one objection that is offered to our plan, that has any force, is that it is better for a young student to be in a "medical atmosphere."

Twenty years ago there was some point to that. Then a junior student was plunged into the midst of the whole curriculum, and did absorb much of his knowledge from the "atmosphere." Progressively since that time, that factor in education has grown less, until now in all first-class colleges the work is so subdivided, graded, separated, that the medical atmosphere is almost *nil*, so far as the students of the first two years encounter it. It has been superseded in the demand for graded work, and is really a negligible quantity.

To urge it today as an offset to the unfortunate status of our elementary work is a mistake. The fact is, the work and atmosphere of the upper and lower classes are logically separated. The question is how best to secure an atmosphere conducive to scientific training in the pure science which now constitutes our elementary work.

We have no uncertainty in our note of encouragement to our students and alumni. We see light. The incorporation into the medical course of all that the university can offer, the consequent reinforcement of the final years by reason of more homogeneous subject-matter, the certainty that the student capacity will be enlarged by the thoroughness of elementary training, all indicate clearly the most satisfactory results from this departure.

The faculty of Rush Medical College desires the approval of its alumni, but it has no trepidation as to the final judgment of the men who in the thick of the fight appreciate the boon of educational advantages that in their day did not exist.

We feel entire confidence that the best is what the alumni demand for its advancing ranks.

## *THE TRANSFER OF THE TWO CLASSES FROM THE VIEW-POINT OF THE UNIVERSITY.*

It is the function of an ideal university to make it possible for a student "to obtain instruction in all forms of knowledge, and discipline in the use of all the methods by which knowledge is obtained." The faculties of Arts, Theology, Law, and Medicine have through long tradition been regarded as essential to the completeness of the work of a university. As knowledge advances, the importance of some of its older forms diminishes, while that gleaned in some of the newer fields, for example, that of the natural sciences, increases. At present, owing to the enormous strides which the medical sciences are making, the faculties of medicine in our great universities are assuming an unprecedented prominence, and today no duty urged upon the administrators of higher educational institutions would seem to be paramount to that of providing adequate instruction and of affording opportunities for original research in the various medical branches.

During the past century in some countries, and especially in America, medical schools have developed more or less independently of universities, the separation being due in large part to the necessity, before the graded course was introduced, of intimate relations between the students in the medical schools in every stage of their education and the patients in the wards of the hospitals. The hospitals were located in the most densely populated and poorest districts of the cities; the universities naturally avoided such an environment and sought quiet and pure air in the suburbs of cities, or even in smaller towns at some distance from the great centers of population. At the period when students studied medical and surgical cases from the moment they entered the medical school, and when, owing to the imperfect development of transportation facilities, hospital and university were of necessity widely separated from one another, the medical school was forced to choose the hospital as its living companion and become divorced from the university and her surroundings. The removal of the medical school from the influences derivable from direct contact with the university could not help but be associated with grave disadvantages, but these were for a time more than counterbalanced by the increased facilities for clinical work which were afforded by the hospital.

As the graded course slowly became organized and students were required to spend two years at least of study in the sciences of anatomy, physiology, and pathology, fundamental to the clinical work of the later years, the necessity of proximity to hospitals no longer held for the first half of the medical course, though it was just as necessary as ever for the latter half of the work. Indeed, it was not long before those instructors who were pedagogically better informed realized that the need for a relation of the work of the first half of the graded medical course to an institution of higher learning was just as imperative as was that which keeps the second half of the course in connection with hospitals.

Medical schools were not endowed, nor did they receive, as they do in Europe, support from the treasury of the state. They had to depend upon the fees of students for salaries, equipment, and current expense. The meager honorarium of the professor did not yield an adequate income; he was compelled to look to the practice of his profession for his living, and to give what was left of his time and energies to the medical school. The school had to have students; without them and the fees that they brought it could not exist. The standards of admission, the character of the curriculum, the discipline of the school, the laxity or severity of the requirements for graduation, had to be arranged with this disturbing thought ever in mind. Then came the extension of the laboratory idea to medicine. With the impetus to practical work in the fundamental sciences of medicine to which the phenomenal progress in biology, physics, and chemistry gave rise, the dissecting room and the pharmacy, the sole laboratories of the medical school, were no longer sufficient; on the contrary, laboratories for work in histology, neurology, embryology, pathology, bacteriology, physiology, and physiological chemistry began to be demanded. Men who had gone into practice immediately after graduation were seldom prepared to teach such subjects; on the contrary, prolonged special training in these various branches is necessary to develop suitable instructors, and the subjects are best represented by men who devote their whole time and energies to a limited field. Instruction in the laboratory demands prolonged contact of teacher and students, and the time given by the didactic lecturer of former days was minimal in comparison with that required of the laboratory instructor. These facts led to a general concession in the best schools that the instruction given in the first half of the medical course should be by men who are not engaged in private practice, but who run their careers as scientists in the subjects which they represent, giving their whole lives to the imparting of knowledge already gained and to acquiring new knowledge which they add to the world's general stock. Such men have to be liberally paid, and the sacrifices which have been made by the faculties of medical schools to meet the emergency, in the lack of endowment, reflect great credit upon their members. But with the best will the faculties of unendowed medical schools are unable to provide the amount of money necessary for modern medical education.

The desirability of the transfer of the studies of the medical schools preliminary to the actual clinical work to medical laboratories at the universities, where the work of the medical colleges can be coördinated with the research work of the medical departments of the universities, and where the instructors and students of the medical sciences can mingle freely with those of allied sciences and of other departments of the university, is obvious on a moment's consideration. In a university the standards of admission will be kept high, the curriculum will be well balanced and properly coördinated with the work of the colleges of liberal culture, on the one hand, and the strictly professional work on the other. Each science will be taught for itself, in a broad way, and there will be but little danger of that fatal restriction of teaching to so-called practical application which is so often a menace in the detached professional school. Endowments for the medical work must be sufficient to permit of instruction and investigation of a degree of dignity and excellence worthy of the university, for, if it is not, the prestige of the whole institution will suffer. The contact of medical with academic students and with those of other professional departments of the university will be of inestimable benefit. The atmosphere of the place is the best thinkable for the advancement of the higher ideals of both general culture and special scholarship. The historical sense, which can scarcely help coming to development on prolonged residence in a university community, while it prepares for progress and reforms, also encourages that discreet conservatism so necessary to the medical man in a world of constantly vaunted panaceas. The thoroughness and accuracy of the training in seeing, thinking, and experimenting which a medical student should receive in university laboratories will go far to make the intellect keen and the judgment sound. A consciousness that by his work he may increase knowledge, together with a desire for truth and an enthusiasm for well-directed effort, should keep him from the pitfall of indifferentism; developmental and comparative studies will excite in him an admiration for the order of nature and should prevent him from even approaching the dangers of fanaticism.

The transfer of the preclinical work of Rush Medical College to the University of Chicago, all the members of the teaching staff in the medical sciences in the University having been appointed to positions on the faculty of Rush Medical College, marks a distinct step forward in medical education in this city. This combination, more intimate and satisfactory than has hitherto existed between the interests of the medical school and the interests of the University, will prove to be of incalculable benefit to both. The spirit of liberality, self-denial, and self-sacrifice manifested by the faculty of Rush Medical College, its keen realization of the immediate needs of higher medical education, its determination to devote all available means and energies toward the uplifting of medicine and medical men in this part of the country, its insistence on the subordination of personal ambition to the welfare of the group, its welcoming of reorganization and desire for friendly criticism, its fear of standing still rather than fear of change, knowing that today standing still means inevitable degeneration—all these make it a co-partner of which the University may well be pleased, and an alma mater of which its alumni will in the future have more than ever reason to be proud.

The present transfer, it is hoped by many, represents only a partial realization of the possibilities of combination which the common interests of Rush Medical College and the University of Chicago suggest. Conditions are changing with the times, and the factors which prevented the close proximity of hospital and university in large cities are rapidly disappearing; indeed, they may be said no longer to exist. We now live under an entirely different set of circumstances, and the immediate future promises to make changes still more favorable to the union of hospitals with universities. The phenomenal growth of cities has been in largest part dependent upon the development of railways. The introduction of intra-urban rapid transit has annihilated local distances, much as railways have reduced the longer stretches. Citizens may reach their offices twenty or so miles distant almost as easily now as when in the past they lived only four miles away. Patients can more easily reach a hospital ten miles distant from home than when they lived within half a mile of it in the olden time. The advantages for medical education and for the further application of the principle of "community of interests" to hospitals, medical colleges, and university research laboratories are plain. On the one hand, a hospital can with modern facilities of transportation be put where it will be most salubrious for patients and at the same time educationally most advantageous; on the other hand, hospitals in various parts of a large city can easily be visited or utilized by the students and instructors of any given medical college or university. The tendency at the moment in industrial organization is to combination on a perpendicular, rather than a horizontal, plane. Instead of the association or absorption of concerns of the same kind in order to lessen competition and to control the price in purchases and sales, there is an inclination, as observers have recently pointed out, for those concerns to combine which are related to one another successively in the transit of a commodity from its raw state through each stage of manufacture till it reaches the consumer. This is the most important form of combination among railway companies, and it is the principle underlying the foundation of the great steel corporation. It is precisely this form of combination or expansion which universities and medical colleges do best to form. It is entirely unnecessary and often undesirable to acquire competing institutions or to attempt to suppress them. On the other hand, what is needed is a coördinated control of the system of education, all the way from the primary school to the educational institutions which turn out men ready to enter upon the business or professions of the world. The economy of administration is a notable feature of such a plan, but above all it is the enormous saving of the time and energy of students and instructors which appeals to us most. There can be an avoidance of exaggeration here and of insufficiency there. The unification of effort will be of untold value. If the telescoping of degrees should in any case be desirable — and at present the movement is directed that way — the methods of effecting it could be worked out to the best advantage.

The next great advance in medicine in America will consist in doing for the clinical branches of medicine what has already been done in several instances for the preclinical branches, viz.: in establishing endowed chairs in connection with special hospitals, so that medicine, surgery, and obstetrics and gynæcology can be taught and investigated in the same thorough manner as anatomy, physiology, and pathology now are in the medical departments of our best universities. A few years ago, before men were paid to give their whole time to teaching and investigation of anatomy, physiology, and pathology, the clinicians complained that the students came to them utterly unprepared in these subjects and unable to properly profit by their clinical studies. In unendowed medical colleges the clinical branches are today represented by men who are paid a mere pittance for their clinical teaching, and who are even told by the administration that they must depend upon their practice for their income, that the chief remuneration that the college can give them is the increase in practice which the college connection may yield. The time and energy available in such cases for the college can scarcely be expected to be maximal. It would not be surprising under such circumstances if we met with the anomalous condition of medical students, well trained in the laboratories of chemistry, physics, and biology, anatomy, physiology, and pathology, complaining on approaching the clinical subjects that the work is insufficiently organized in those branches, that the results in the fundamental sciences are but slowly applied in the practical work of the wards, and that the opportunities for original investigation are inadequate. There is, indeed, a crying need for the endowment of large hospitals for the especial purpose of teaching and investigation. There is urgent necessity for the provision of liberal funds for the payment of salaries of teachers of the clinical branches in the medical college and for the endowment of professorships for graduate work and original research in the universities. The union of a medical college of the kind mentioned with the research work of a university would benefit both. It is to be hoped that the friends of Rush Medical College and of the University of Chicago may speedily provide the material aid which will make such an ideal scheme feasible. J. A. B.

## THE TRANSFER OF THE TWO CLASSES FROM THE COLLEGE VIEW-POINT.

The transfer of the work of the Freshmen and Sophomore years of the medical course to the science laboratories of the University is a step in advance. It is a move which possesses distinct advantages. The study of medicine in a broad sense is the study of the human body in health and disease. The study of medicine is a science, and like all sciences is based largely upon other sciences. The science of medicine is based upon anatomy, physiology, chemistry, pharmacology, and pathology. The working knowledge of these sciences necessary for the pursuit of the science of medicine must first be acquired before the student begins the study of the science of medicine proper, which is, as stated above, the study of the living human body in health and disease.

Along with the science of medicine the student must acquire the art of medicine, which is the practical application of the science of medicine for the benefit of the individual and of society. The medical course, therefore, can well be divided into three distinct parts. In the first part the student acquires this working knowledge of anatomy, physiology, chemistry, pharmacology, and pathology, and this work can best be done in science laboratories, and the material demanded is of inorganic or dead organic or living lower forms, which can best be handled in such laboratories. The second part of a medical student's course — the study of the science of medicine proper — also demands laboratories, but these laboratories are hospitals and dispensaries, and the material with which he works, the living human body. The third part, the art of medicine, must be acquired in actual practice, and this can best be done by the medical student as an interne in a hospital. There is a distinct advantage, therefore, in the move which we have recently made in dividing our medical course into a Junior and a Senior College: placing the Junior College work in the science laboratories at the University, where the student can study the fundamental sciences to best advantage and complete this work before he begins the Senior College work of the dispensary and the hospital.

The desirability of adding a fifth, a hospital, year to our medical course is not to be disputed.

When we compare the instruction given today to medical students with the instruction given to dental students, this fact becomes apparent: the dental student has learned the *art* of dentistry, and on graduation can at once enter practice with the knowledge he has acquired. Of course, the field is very narrow as compared with medicine, but he is proficient in this narrow field. He has learned his art and has already applied it in actual work. The medical student when he is graduated has learned much, but he has had little opportunity of putting this knowledge into practice. This opportunity of applying his knowledge he can obtain only by securing a hospital appointment after graduation or else in actual private practice. A year or two in a hospital as interne is of the greatest value in completing a medical training. About 30 per cent. of our graduates obtain hospital appointments. How to obtain this training for the other 70 per cent. is the next great problem which medical instructors must solve. With two years in the science laboratories, two years in the clinical laboratories, and one year as hospital interne the medical student's course would be complete.

The science of medicine and its allied sciences have developed to a point where it is no longer possible for one man to cover as a teacher the entire field. The teacher must limit his work to a special field in order to become proficient in it. Anatomy or surgery, physiology or medicine, must be taught by men who are devoting their lives to these single branches, but a teacher in any department of a medical school cannot do the best work, no matter how proficient he may be in his special branch, unless he keep in close touch with the broad general science of medicine itself. The teachers in every department of a medical school must be essentially, if not actually, medical men. The teacher of surgery must keep in touch with anatomy, pathology, bacteriology, physiology, and pharmacology, with internal medicine and obstetrics, if he expects to do his full duty. And in the same way the professor of anatomy, of physiology, or of pathology must keep in touch with the chairs of clinical medicine. He must know what of his own branch is of value in the science and art of medicine in order to do the best work in his own department.

In the old days, when the faculty of a medical school consisted of six or seven men, all practicing physicians, they were all in close touch with the so-called seven cardinal branches of medicine: anatomy, physiology, chemistry, materia medica, medicine, surgery, and obstetrics. In these days, when the faculty of a great medical department consists of more than a hundred instructors, specilization has brought with its many advantages this one marked disadvantage, *i. e.*, men are too apt to limit their horizons to their own line of work, and to the extent they do this they lose value as teachers. It is a disadvantage, however, which should be recognized and which can be guarded against.

(Billings ?

## WOMEN IN RUSH COLLEGE.

At the date of its organization the University of Chicago set the stamp of its approval upon the coeducation of the sexes in its several departments; and ten years of unprecedented success have demonstrated the correctness of this course. If men and women can work together when busied with the problems connected with the study of literature, history, general science, and art, why can they not do the same in the department of medicine?

By the recent action of the trustees and faculty of the College, women are admitted to the medical courses of the first two years. No one can doubt that the last two years of the course, the Junior and Senior, will offer the same privilege in proper time as a fitting conclusion of the step already taken. The coeducation of the sexes in medicine has been successful elsewhere. We shall look to see it no less a success in Rush Medical College.

---

## THE SENN CLINICAL BUILDING.

### I. LAYING OF THE CORNER-STONE.

The corner-stone of Senn Hall, the new clinical building of Rush Medical College, was laid at 5 P. M. on Wednesday, June 19, 1901, President Harper of the University of Chicago presiding.

Prayer was offered by Rev. Dr. McCaughan, after which Professor E. F. Ingals read a brief account of the history of the building, which is subjoined.

The secretary of the faculty, Professor Hyde, then read a list of the articles placed in the box beneath the corner-stone, as follows:

Photograph of Professor Daniel Brainard; photograph of Professor Nicholas Senn; copy of Rush Medical College *Announcement;* copy of University of Chicago *Bulletin;* copy of University of Chicago Thirty-eighth Convocation; circular letter to alumni; blank diploma, signed; the daily papers; copy of the *Journal of the American Medical Association;* Rush number of University of Chicago *Record;* list of graduating class; class day program; statement of history of new building and liquidation of college debt, by Dr. Ingals.

The corner-stone was then laid by Professor Senn, and an address was made by Professor

John M. Coulter, of the University of Chicago.

The benediction was pronounced by Rev. Dr. McCaughan.

A large number of the students and faculty were in attendance, as well as the public, the grounds and buildings being specially decorated for the occasion.

### II. HISTORY OF THE BUILDING.

During the first two years after the affiliation of Rush Medical College with the University of Chicago the rapidly increasing classes forced upon the faculty a realization of the necessity for more room in order to enable the college to carry on the work according to the high ideals of its teachers.

At the close of the first college year after affiliation, the need had become so apparent that President Harper emphasized it in his speech at the annual banquet, and even predicted that a new building would be well under way before the close of another year. Steps were immediately taken to plan a structure suited to the work, and much time was given to the plans by the faculty, in consultation with the architects that had been selected by the Board of Trustees. In the winter of 1899 a volunteer committee of the faculty, consisting of Professors A. D. Bevan, Frank Billings, John M. Dodson, E. Fletcher Ingals, and J. Clarence Webster, accompanied by President William R. Harper of the University and Mr. Coolidge, one of the architects, visited all of the leading schools in the East, studied their buildings and appliances, and consulted with their faculties upon the accommodations needed for modern medical education.

Upon the return of this committee, Messrs. Shepley, Rutan, and Coolidge drew up plans for a new college building which was designed when completed to consist of a main structure, closely connected with the east and west wings, which altogether would cover the whole lot now partly occupied by the clinical building on the northeast corner of West Harrison and Wood streets. These plans were carefully studied by the faculty, and finally the trustees were asked as soon as practicable to construct the east wing of the proposed building. The trustees decided to do this as soon as funds for the purpose could be obtained, but the uncertainty in the financial world and the slow recuperation from the panic of 1893 made it impossible to secure the funds. Finally in December, 1900, Professor Nicholas Senn offered to give $50,000 toward the construction of the new wing, which was to be known as Senn Hall.

The prosperity of the College and careful management during the previous three years had accumulated a surplus of $30,000 in the treasury, which was now appropriated by the trustees for the building fund, but still $30,000 more was needed to construct the building, which it had been decided should be fireproof, and not only substantial, but of handsome design. In that emergency six other members of the faculty donated $5,000 each, and thus Professors Daniel R. Brower, Arthur Dean Bevan, Frank Billings, Frederick C. Coolidge, Henry B. Favill, and E. Fletcher Ingals added to the numerous contributions that had already been made by the faculty to the institution. The contracts were let, and work began at once on the structure, the cornerstone of which has just been laid. This, the east wing of the College, is to be known as Senn Hall; it occupies an area of 40 × 90 feet, and will be seven stories in height, including the basement. It will connect on several floors with the old clinical building, and will also connect with the Presbyterian Hospital, the communicating openings being guarded by fireproof doors. The basement and first three stories will be used for an outdoor patient clinic. The fourth and fifth stories will be utilized for clinical laboratories, and the upper stories for clinical amphitheaters.

Its firm foundations and careful construction lead us to hope that the building may stand for generations, as a monument to the zeal and self-sacrifice of the President of the University and the Faculty of the College; and that it may prove a large factor in the progress of medical education.

### *III. THE CLINICAL ADVANTAGES OF THE NEW BUILDING AND OF THE NEW DISPENSARY CONNECTION.*

The corner-stone of the new clinical building, to be known as Senn Hall, was laid June 19, and it is expected that the structure will be ready for occupancy by January 1, 1902. This building, of fireproof construction throughout, will cover a ground-area of 40 × 90 feet, will have six stories and a well-lighted basement, and is so planned that it will form the east wing of a larger structure which it is hoped will replace before long the old clinical building.

The basement and the first three floors will be devoted to the out-patient clinic, different rooms having been arranged to meet the requirements of different departments. The three upper stories will be occupied with clinical laboratories and amphitheaters.

The equipment of the building has been carefully planned to provide for absolute cleanliness, both surgical and medical, and to meet fully the requirements of modern methods of clinical instruction. These new advantages will add much to the pleasure and profit of both student and teacher.

Sufficient room will be afforded in each clinical department for the examination of a larger number of patients in a given time, and this will afford also the opportunity for instruction to a larger number of students in small groups at one and the same time. A larger number of teachers in each clinical department will be necessary, so that each group of students examining a patient shall have the guidance and help of an instructor.

The new clinical building and the opportunities which it will afford mean, therefore, as a necessary part, a larger number of patients. This material we may reasonably hope to attain, because, with the coöperation of the trustees of the Central Free Dispensary of the West Side, the attendance of patients will be multiplied two or three times within a very short period of time.

With, therefore, an out-patient department with a material sufficient in amount to meet all of the requirements, and with a new clinical building in which the material may be utilized, we may confidently expect much greater success in the ambulatory and clinical teaching of the College.

---

### *THE NEW EXAMINATIONS AND THE NEW DIPLOMA.*

Has the quarterly system adopted two years ago in Rush Medical College fallen short of an ideal; and can changes be made with a view to its improvement? The fundamental principles of medicine, which are taught in the first two years, are in large part forgotten by students when they enter the upper classes, and in larger measure when they are preparing to be graduated. This renders the passing of the examinations of the several State Boards a difficult undertaking, for in them a knowledge of the fundamental branches is required.

In the quarterly system the passing of examinations every three months permits the student to secure credit for that part of the work he has then completed, and for it the faculty cannot again hold him responsible. The student thus dismisses from his memory that part of his work and turns his attention to the new field before him. Teachers of the upper classes find a lack of knowledge of the primary branches, especially when the preliminary course has been taken a year or more before. In surgery, for instance, the students may be relatively ignorant of anatomy, the basis of surgery.

In order to remedy this defect, the faculty has exchanged the quarterly examinations for "tests," and purposes to give credit for courses from these tests when taken in connection with the recitation and laboratory grades. The tests are not final, and when duly met the faculty in no way is under obligation to grant a degree or to promote the student to a higher class. Two sets of examinations are now provided, the one primary, the other final. Primary examinations are conducted at the end of the Sophomore year, and include a written and a practical test in each of the fundamental branches. With small exception, these must be passed completely before the student is admitted to the Junior class. Final examinations are conducted at the close of the Senior year, and include a written and a practical test in almost all of the courses of the past two years. These must, for the most part, be passed completely before the student is allowed graduation. As students enter the College at the beginning of every quarter, these examinations will be held at the end of every such quarter, and failure necessitates another quarter in residence before the possibility of a second attempt.

By this method it is believed that students will review all the fundamental branches of the course at the end of the Sophomore year, and will have a better working knowledge of the subjects taught during the concluding half of the curriculum. Furthermore, a few elective courses in the fundamental branches have been added to the Senior year, so that students can review their work before being subjected to the state board examinations.

The recent changes have necessitated an alteration in the form of the diploma granted to the graduate. When the faculty list included merely a few head professors, each of whom met the entire class in lectures, the diplomas were signed by them all. Now that the faculty proper includes over seventy-five men, and much of the instruction is imparted by associates of, or assistants to, head professors, the signing of the diplomas after July 1, 1901, will be relegated to the officers only of the College.

### ORIGINAL RESEARCH.

When a physician makes a diagnosis he follows precisely those methods of observation, comparison, and experiment which are employed in original research.

In the laboratory and the class-room the student who is merely adding to his own information, as well as the student who is also adding to the sum of human knowledge, works according to these same methods.

Thus original research is to be set apart as one kind of work, not because its methods differ essentially from those by which the best teaching is conducted, but because under this title the student strives to make some real contribution to science; to gain knowledge for others as well as for himself.

In order that work of this sort may be carried on, the surroundings must be such that the experiments can be controlled, and the apparatus delicate and powerful enough to reveal those differences which are to be observed and recorded.

To offer facilities for such advanced study is the first duty of a university. By making use of these opportunities the student attains proficiency in the logic of experimentation, and in that fineness of discrimination which is the foundation of exact thinking.

More and more it is becoming the custom for students during their undergraduate years to increase their scientific experience by taking up such work, and for the advanced students in medicine to justify their selection of a specialty by doing research work within their chosen fields.

But it is not those alone who work in the research laboratories that feel their influence. No student can work where scientific advances are being made, or take part in the investigations which lead to them, without being profoundly impressed by the fact that growth is the chief character of the sciences contributory to the art of medicine, and that where growth occurs theories and explanations must be subject to ceaseless change and always open to correction and revision, while at the same time these changes bring as their compensation an ever surer knowledge and a wider view.

Donaldson

### *THE LIBRARY.*

During the past year there has been a steady growth of the library. A considerable number of books has been added, partly by gift, partly by purchase. The number of current periodicals on file has increased, so that now 156 periodicals are received regularly. The number of readers has increased steadily, and the present quarters are quite insufficient. The most noteworthy event during the year is the donation by Professor Christian Fenger of a large collection of books and journals, principally in the German language, and largely of a surgical character. Unfortunately there is not now shelf room enough to make this valuable addition accessible to the readers. As soon as the new building, now in process of construction, is finished, it is proposed to remove the library into the quarters at present occupied by the Central Free Dispensary. This will give abundant shelf room and greatly increased reading room. The new quarters, which are situated on the ground floor of the old college building, will also be much more readily accessible to students and other patrons of the library, which at present is located in an upper story. It is believed that the steady growth of the library, and the increased use made of it, especially by the students, augur well for the future. The library has become one of the most important factors in the work of the College.

### *HOSPITAL-WARD TEACHING.*

All the arguments that can be advanced in favor of the laboratory method of teaching the elementary branches, such as anatomy, physiology, pharmacology, chemistry, and pathology, apply, with equal or greater force, to the teaching of the more immediately practical branches of medicine, surgery, obstetrics, and the specialties.

The ward with its beds, patients, and instruments of precision is the medical and surgical laboratory.

A student learns more about a chemical substance by making experiments himself than by seeing them performed in the arena by the professor, or by reading about them in a book. So the student working carefully over his case of pneumonia learns in this way much more about this disease than he would by hearing the subject discussed in recitation or didactic lecture, or by seeing the same case demonstrated in the large amphitheater.

The two objects of education are the imparting of knowledge, *i. e.*, the teaching of facts, and the inculcation of correct methods, making the student capable of independent, productive study in the future. The laboratory or ward-work attains these two objects. The live interest that attaches to the study of the concrete tends to fix the facts acquired by the laboratory method more firmly in mind, and the knowledge is therefore more readily utilizable. But of far greater value is it that the laboratory method makes the student observe, think, and reason for himself. A single fatal case of cancer, if carefully studied from beginning to end with its complications, the surgical operation for its relief or removal, and the confirmations and surprises of the autopsy, may give to the student a better training in how to study than any number of hours of didactic lecturing. And the facts he learns by his proven mistakes will never be forgotten.

The requisites for ward-work are the patient, the student, the teacher. Occasionally the student is his own teacher.

The patient should be willing, for the sake of the benefit he derives from a thorough study, and hence more skilful treatment, of his case, to permit careful and repeated examinations and observations to be made. Objections on the part of patients, and even pay-patients, are rare when they learn that not harm but good comes to them, as well as to the student, from the work in the ward. Ambulatory or dispensary material can be profitably utilized for many diseases, though only the ward of the hospital permits of continuous and repeated observation and shows the more serious forms of the acute infectious and traumatic diseases and the terminal and complicated stages of the more chronic maladies.

The student should be well grounded in the fundamental branches; should have had training in the proper use of instruments of precision; should be familiar with the physical signs of the normal body; and should have a text-book knowledge of the general subject of medicine, surgery, and obstetrics. Unless he comes to the ward-class with this fundamental training and this general knowledge of his subject, he has a narrow field of vision, and fails to see things in their proper relations one to another, and the teacher, in order to correct false impressions and put things in their proper light, is obliged to spend too much time in matters purely didactic. A student beginning his study of medicine or surgery in the small ward class without this preliminary training is much like the beginner in microscopy who starts to work with the oil-immersion lens before using the lower powers that expose a wider field to view.

Much depends on the teacher. He imparts information, though he often does this by leading the student up to the pleasure of an independent discovery. He trips up the over-confident man, encourages the hesitating and diffident; he corrects faulty technique, insists upon system in all branches of the work, incites to further reading and observation, and arouses the research spirit in his class. The personal influence of a tactful teacher brought day after day into intimate relations with a few students has a value that cannot be easily estimated.

The student thus trained when he goes to his private practice continues at the bedside of his patients the same methods that he has learned in his ward class, and becomes the well-informed, progressive, scientific practitioner.

To the students of Rush Medical College the Dispensary and the Presbyterian and Cook County Hospitals offer many advantages in the way of ward-work, and these advantages are duly appreciated, as shown by the numbers who are eager to obtain places in the classes. The best work in this line, however, can be done only when Rush has a hospital entirely under her own control, into whose wards a student may enter freely, where he may for a few weeks have the privilege and the responsibility of watching over a few beds, keeping records, making observations, and reporting daily to his chief and his instructor, and acquiring that practical knowledge, that self-reliance, that scientific method of observing, recording, and reasoning, that fit him to be the progressive physician to whom reference has been made.

Herrick

## EXTRA-MURAL CLINICS.

The arena clinic, conducted before a large body of students, is no longer looked upon as the all-sufficient means of teaching practical medicine and surgery. Students who are to be adequately trained in the methods of examination, diagnosis, and treatment, or operation must be brought, either singly or in small groups, into personal contact with the patients in the dispensary or the hospital ward, where the hand, the eye, and the other special senses are trained, and the powers of observation cultivated by actual practice. To provide material for such courses demands a much larger number of patients than is usually under the control of the medical school.

On the other hand, there is in every large city a number of hospitals and dispensaries where little or no teaching is done. In Chicago, for example, within reasonable distance of Rush Medical College, are not less than eighteen such institutions. The members of their several staffs are competent and anxious to teach; the patients not only do not resent, but in most cases actually enjoy, the presentation of their cases to students, provided always that this be done in a courteous and kindly manner; they are more thoroughly examined, more exhaustively studied, and more intelligently treated in those institutions where students are admitted to whom the cases are demonstrated.

Here, then, are students sadly needing clinical material, attending physicians anxious to teach, and patients who would be better served if their cases were presented to small groups of Senior students and studied by them. To correlate these several needs was a difficult problem under the fixed curriculum. The student, whose days were very fully occupied by the scheduled work in the college, found little time for outside work even when it was offered, the work being purely optional on his part and entitling him to no credit on the regular course for the degree. With the elective system this difficulty is removed. Under a careful selection of teachers, who must be approved by each head of department, and with such an arrangement of courses as will enable a student to spend a half day or more in continuous work, in an outlying dispensary or hospital, elective courses can be offered, for which there is given the same credit, hour for hour, on the course for the degree, as for similar work done within the walls of the institution. The physicians offering these courses become members of the extra-mural faculty, keep careful records of the students' attendance and work, and report the same to the college office. The plan corresponds closely to the system of extra-mural teaching which has been in vogue in Edinburgh for many years.

During the past year, through courtesy of the directors of the several institutions and the kind coöperation of the members of the attending staffs, extra-mural courses have been established as follows: at the West Side Hebrew Dispensary, two courses in the diseases of children, one in neurology, one in surgery, one in diseases of the throat, nose, and ear, and one in ophthalmology; at the St. Luke's Hospital, one in medicine and one in surgery; at the Cook County Hospital, three in surgery, three in medicine, and two in the diseases of children; at the Illinois Charitable Eye and Ear Infirmary, two courses; at the Chicago Isolation Hospital, a course in smallpox, in which about two hundred patients were shown to members of the Senior and Junior classes, in groups of ten or less.

The classes for each of these courses are limited to from six to twelve students, and each exercise extends over two hours or more. No work which the college has offered in recent years has been received more enthusiastically by the students, and the registration for them has been uniformly up to the limit of the number allowed in each section. It is gratifying to record that the authorities of the several institutions assert that the attendance of the members of the staff has been more prompt and regular, and the patients have been more carefully examined and treated, than ever before. Arrangements are making for the establishment of similar courses in several other hospitals during the coming year.

Extra-mural teaching, it may be confidently asserted, is one of the most valuable additions to the teaching resources of Rush Medical College which have yet been made.

---

## THE ALUMNI OF RUSH COLLEGE.

The Alumni Association of Rush Medical College holds its meetings yearly at Commencement time. This year the exercises began with a clinic by Professor Senn on Tuesday. During the following three days the time was occupied by clinics by Professors Webster, Ingals, Brower, Bridge, Fenger, Hyde, Bevan, Dodson, and a special clinic by Professor John H. Musser, of Philadelphia, on Thursday.

The annual meeting of the Association took place at the College Friday, June 21, at 11 o'clock.

Entertainment for the alumni was furnished by a theater party on Thursday evening, June 20.

The annual banquet of faculty and alumni this year at the Auditorium was presided over by Dr. J. Clarence Webster. Short addresses were made by Professor George E. Vincent, of the University of Chicago; Professor Lewellys F. Barker; Professor Richard Burton, of the University of Minnesota; Judge C. C. Kohlsaat, of the United

States court; and Dr. C. M. Echols, of the graduating class.

Since the suspension of the student paper, the *Corpuscle*, there seems to be an increased demand for a journal that shall be a medium between the College and alumni. In the opinion of many, this is a fitting time for the launching of a scientific journal under the care of the faculty. The Alumni Association could promise substantial aid in such an enterprise.

An effort was instituted three years ago to found a fellowship for the alumni, and about one hundred dollars was set aside as a nucleus for such a fund. Whether this is to be an accomplished fact or not will depend on the efficiency of a committee which should be selected this year to complete the fund. The alumni are numerous enough, enthusiastic enough, and rich enough to do this and much more for their alma mater. The sum of eight thousand dollars would be necessary for such a fellowship as is contemplated. No doubt many alumni would be willing to make a substantial contribution for five successive years. Such a fund might be made effective if enough could be contributed annually for five years for the support of a fellow, and at the end of that time an effort might be made to endow the fellowship.

The officers of the Alumni Association for the present year are:

President, Dr. E. H. Dudley, '75, Janesville, Wis.
First Vice-President, Dr. B. B. Griffith, '82, Springfield, Ill.
Second Vice-President, Dr. J. J. Bell, '86, Chicago, Ill.
Third Vice-President, Dr. E. E. Morgan, '93, Fort Wayne, Ind.
Secretary and Treasurer, Dr. John Edwin Rhodes, '86, Chicago, Ill.
Necrologist, Dr. F. C. Honnold, '96, Riverside, Ill.

The officers of the Alumni Association elected at the annual meeting, June 20, 1901, are as follows:

President, Dr. Joseph W. Edwards, '54, Mendota, Ill.
First Vice-President, Dr. D. H. Bowen, '76, Waukon, Ia.
Second Vice-President, Dr. A. W. Troupe, '84, Pine Bluff, Ark.
Third Vice-President, Dr. C. A. Ullerick, '93, Chicago, Ill.
Secretary and Treasurer, Dr. John Edwin Rhodes, '86, Chicago, Ill.
Necrologist, Dr. A. L. Craig, '78, Chicago, Ill.

At the last annual meeting it was decided by the Alumni Association that next year the business meeting be held in connection with a dinner to be given the evening preceding that devoted to the theater party, and to which only alumni members of the association shall be invited.

Dr. Christian Fenger, of Chicago, in recognition of his contributions to surgical knowledge, has been decorated with the cross of Dannebrog by Christian IX. of Denmark.

At the recent annual commencement of Rush Medical College, the honorary title of Master of Surgery was conferred upon Dr. Nicholas Senn.

### STUDENTS' MEDICAL SOCIETY OF RUSH COLLEGE.

The society has had a membership of 103 during the past year, the officers having been as follows:

Honorary President, Professor Bevan.
President, J. S. Fox.
Senior Vice-President, John Musterd.
Junior Vice-President, C. E. Phillips.
Secretary, John Crewe.
Junior Secretary, J. G. Bestwick.
Reporter, M. H. Fischer.
Pathologist, H. K. Pangburne.
Council, Professor Webster, Professor Dodson, N. W. Jones.

The following program of work was carried out:

I. OCTOBER 12, 1900.

1. Paper — "Cellular Poisons." Dr. Hektoen.
2. Paper — "The Toxic Effects of Formaldehyde and Formalin." Martin H. Fischer, '01.
   Discussion — A. C. Durkee, '01.

II. OCTOBER 19, 1900.

1. Paper — "Appendicitis." F. M. Wood, '01.
   Discussion — F. M. Hubbard.
   R. E. Tubbs.

2. Address — "Incidents of a Vacation Trip, with Report of Visit to Some European Clinics." Felix Ashcroft, '01.

### III. NOVEMBER 2, 1900.

1. Paper — "Immunity." Dr. Wells.
2. Paper — "The Technique of Malarial Investigation." J. C. Ohlmacher.
   Discussion — H. K. Pangburne, '01.
   Dr. Wells.

### IV. NOVEMBER 16, 1900.

1. Paper — "The Etiology of Acute Rheumatism." A. E. Garvy.
   Discussion — I. D. J. Franklin
2. Paper — "The Treatment of Gall-Stones." F. F. Tucker.
   Discussion — F. M. Wood.
   A. C. Garvy.

### V. NOVEMBER 30, 1900.

1. Paper — "Dermatitis Venanata." Roy F. Rogers, '01.
   Discussion — M. M. Hill, '01.
   H. W. Raynor, '01.
2. Paper — "Diseases Sometimes Mistaken for Malaria." Professor Herrick.
3. Paper — "Mountain Fever."
   Discussion — N. W. Jones, '01.

### VI. JANUARY 11, 1901.

1. Paper — "Pertussis." F. L. Hubbard, '01.
2. Address — "A Medical Trip to the Philippines and India." Professor Barker.

### VII. JANUARY 25, 1901.

1. Paper — "The Etiology of Carcinoma." F. M. Wood, '01.
   Discussion — M. H. Fischer, '01.
2. Paper — "Factors in the Etiology of Pelvic Pains." J. S. Fox, '01.
   Discussion — W. A. Klingberg, '01.
   F. M. Williams, '01.

### VIII. FEBRUARY 8, 1901.

1. Paper — "The Treatment of Inguinal Hernia." J. L. Lavin, '01.

### IX. FEBRUARY 20, 1901.

1. Paper — "Report of a Case of Acute Yellow Atrophy, with Treatment and Recovery." I. J. D. Franklin, '01.
   Discussion — W. S. Kirtley, '01.
2. Paper and demonstration — "Blastomycetic Dermatitis." Dr. Ricketts.
3. Paper and demonstration — "Report of Case of Carbuncle of Lip Terminating Fatally." W. B. Wherry, '01.

### X. MARCH 8, 1901.

1. Paper — "The Treatment of Pulmonary Tuberculosis." M. H. Heffernau.
   Discussion — J. C. Ohlmacher, '01.
   J. S. Fox, '01.
2. Demonstration of Pathological Specimens of the Eye. Dr. Pusey.

### XI. APRIL 12, 1901.

1. Paper — "Typhoid Bacilli in the Urine." H. E. Davies, '02.
2. Paper — "Cathartics and Hypnotics in Treatment of the Insane." W. V. Gulick, '01.
   Discussion — W. L. Burnap, '01.
   Frank A. Eckdall, '01.
   B. Kinsell, '01.

### XII. APRIL 26, 1901.

1. Paper — "Reversible Enzymes." Professor Lyons.
2. Paper — "Reversible Enzymes." H. W. Raynor.

### XIV. MAY 10, 1901.

1. Address — "Elements That Make Success." Professor Brower.
2. Paper — "Legal Medicine." D. D. Monroe, '01.

### XV. MAY 30, 1901.

Lecture — "History of Antisepsis." Professor Howard Kelly (Baltimore).

### XVI. JUNE 14, 1901.

1. Closing address. Professor Bevan.
2. Annual election of officers.

J. S. FOX, *President.*
JOHN CROWE, *Secretary.*

## LIST OF PUBLICATIONS.

*BY THE MEMBERS OF THE FACULTY OF RUSH MEDICAL COLLEGE DURING THE YEAR 1900-1901.*

### I. DEPARTMENT OF ANATOMY.

#### LEWELLYS F. BARKER.

"The Study of Anatomy." *Journal of the American Medical Association*, Chicago, March 16, 1901.

English translation of W. Spalteholz, "Hand Atlas of Human Anatomy," Vol. I, Bones, Joints, Ligaments. Leipzig: S. Hirzel, 1900.

"On the Importance of Pathological and Bacteriological Laboratories in Connection with Hospitals for the Insane." *American Journal of Insanity*, Vol. LVII, 1901, pp. 501–17.

"The So-called Cardiac Neuroses." *Chicago Clinical Recorder*, 1901.

"Histology of the Brain." Reference Handbook of Medical Science, second edition, Vol. II, pp. 322–65. New York: Wm. Wood & Co., 1901.

"Report of the Commission Appointed by the Secretary of the Treasury for the Investigation of Plague in San Francisco, under Instructions from the Surgeon-General of the Marine Hospital Service." Washington: Government Printing Office, 1901.

"On the Profession of Nursing and its Future." Address to the graduating class of the Training School at the Lakeside Hospital, Cleveland, May 29, 1901. *American Journal of Nursing*, June, 1901.

T. A. OLNEY.

"The Surgical Anatomy of the Abdomen." Reference Handbook of Medical Science. Wm. Wood & Co.

E. A. IRWIN.

"Practical Points on Feeding the Sick." Read at the Rocky Mountain Interstate Medical Association, at Butte, Mont. *Denver Medical Times*, January, 1901.

F. C. WAITE.

"Bufo Agua in the Bermudas." *Science*, N. S., March 1, 1901, Vol. XIII, pp. 342, 343.

## II. DEPARTMENT OF PHYSIOLOGY.

J. LOEB.

"On the Transformation and Regeneration of Organs." *American Journal of Physiology*, Vol. IV, 1901.

"Further Experiments on Artificial Parthenogenesis and the Nature of the Process of Fertilization." *Ibid.*, Vol. IV, 1900.

"Artificial Parthenogenesis in Annelids (Chæloptrus) and the Nature of the Process of Fertilization." *Ibid.*, Vol. V, 1901.

"Die Bedeutung der Ca und K Ionen für die Herzthatis Kert." *Pflügers Archiv*, 1900.

"Comparative Physiology of the Brain and Comparative Psychology." New York: G. P. Putnam's Sons, 1900.

"On an Apparently New Form of Muscular Irritability (Contact Irritability?) Caused by Solutions of Salts (Preferably Sodium Salts) Whose Anions are Liable to Form Insoluble Calcium Compounds." *American Journal of Physiology*, Vol. V, 1901.

E. P. LYON.

"Compensatory Motions in Fishes." *American Journal of Physiology*, Vol. IV, No. 2, July, 1900.

"An Improved Form of Kuhne's Artificial Eye." *School Science*, June, 1901.

D. J. LINGLE.

"The Action of Certain Ions on Ventricular Muscle." *American Journal of Physiology*, October 1, 1900.

## III. DEPARTMENT OF CHEMISTRY.

WALTER S. HAINES and CHARLES S. WOODS.

"Is there Such a Constituent of the Urine as 'Ureine'?" *Medicine*, April, 1901.

J. H. SALISBURY.

"The Constitutional Treatment of Interstitial Gingivitis." *Journal of the American Medical Association*, August 25, 1900.

"The Relation of Diseases of the Mouth to Diseases of the Internal Organs." *The Chicago Clinic*, October, 1900.

"The Uric Acid Diathesis." *Ibid.*, April and May, 1901.

## IV. DEPARTMENT OF MATERIA MEDICA.

J. A. PATTON.

"Pharmacology and Modern Therapeutics." *The Chicago Clinic*, Vol. XIII, No. 7, September, 1900.

"Pharmacology of Alkaline Medication." *Ibid.*, Vol. XIII, No. 12, December, 1900.

J. G. SHELDON.

"Dorsal Dislocation of the Trapezoid." *American Journal of Medical Sciences*, January, 1901.

"Appendicitis with Thrombosis and Suppuration in the Right Iliac and Femoral Veins." *Annals of Surgery*, July, 1901.

"The Relations of Mosquitoes, Rats, and Cats to Diseases." *The World's Work*, July, 1901.

## VI. DEPARTMENT OF PATHOLOGY.

L. HEKTOEN.

"Section on Pathology." *Progressive Medicine*, March, 1901. Philadelphia: Lea Brothers & Co.

"Editorial Supervision of Translation of Dürck's Atlas and Epitome of Pathologic Histology." Vol. II. Philadelphia: W. B. Saunders & Co., 1901.

"The Pathological Anatomy of the Blood Vessels." Reference Handbook of Medical Science, Vol. II. New York: Wood & Co., 1901.

"Two Rare Cardiac Anomalies." *American Journal of Medical Sciences*, February, 1901.

"Tuberculous Perimyocarditis with Tuberculous Aortic Aneurysm." *Medicine*, March, 1901.

E. R. LE COUNT.

"Report of the Histologic Changes Found in the Tissues of Animals Inoculated with Diplococcus scarlatinae" (Class). *Journal of the Boston Society of Medical Sciences*, 1901, Vol. V, pp. 332, 333.

"The Genesis of Carcinoma of the Fallopian Tube in Hyperplastic Salpingitis, with Report of a Case and a Table of Twenty-one Reported Cases." *The Johns Hopkins Hospital Bulletin*, 1901, Vol. XII, pp. 55–68.

I. B. DIAMOND.

"Multiple Ossified Ecchondrosis and Exostosis of the Trachea and Larger Bronchi." *Medicine*, October, 1900.

H. G. WELLS.

"The Practical Value of the Determination of Indicanuria." *Western Clinical Recorder*, Vol. II, No. 4, p. 267.

"The Present Conception of the Means of Defense against Bacterial Invasion." *Milwaukee Medical Journal*, January, 1901.

"An Experimental Study of the Origin of the Epidemic of Tetanus Following July 4, 1899." Report of a case with recovery. *Philadelphia Medical Journal*, June 16, 1900.

"The Pathology of Active Tuberculosis of the Pericardium." *Journal of the American Medical Association*, May 25, 1901.

"Fourth of July Tetanus." *Medical News*, June 1, 1901.

### THEO. TIEKEN.

"Pancreas Annulare." *Transactions of the Chicago Pathological Society*, 1901, Vol. IV.

### MARTIN H. FISCHER.

"A Study of the Neurone Theory." *Journal of Experimental Medicine*, 1899, Vol. IV, p. 535.

"Some Observations upon the Motor Spinal Ganglion Cell." *Transactions of the Chicago Pathological Society*, 1900, Vol. III.

"False Diverticula of the Intestine." *Journal of Experimental Medicine*, 1901, Vol. V, p. 333.

"The Toxic Effects of Formaldehyde and Formalin." *Boston Journal of Medical Sciences*, 1900, Vol. V.

"Ionization in its Physiological and Pathological Relations." *Medical Record*, 1901.

## VII. DEPARTMENT OF MEDICINE.

### FRANK BILLINGS.

"Gastro-Duodenal Disorders Due to Improper Modes of Living." Read at annual meeting of Michigan State Medical Society, at Mackinac Island, Mich., July 12, 1900. *Transactions of the Michigan State Medical Society.*

"Symptomology of Angina Pectoris." Chicago Medical Society, January, 1901. *Chicago Medical Recorder*, February, 1901.

"Report of the Progress of Cases of Pernicious Anemia, and the Report of a Case of Pernicious Anemia with Diffuse Spinal Cord Lesions and Post Mortem Findings." Association of American Physicians, Washington, D. C., May 1, 1901. *Transactions of the Association of American Physicians*, 1901.

"The Limitations of Medical Therapeutics." Address to Ohio State Medical Society, Cincinnati, O., May 8, 1901. *Transactions of the Ohio State Medical Society*, 1901.

"Some of the Fallacies of Uric Acid." Address to Illinois State Medical Society, Peoria, Ill., May 22, 1901. *Journal of Illinois State Medical Society*, 1901.

### D. R. BROWER.

"Hereditary Cerebellar Ataxia, Nocturnal Epilepsy." A clinical lecture, Cook County Hospital. *International Clinic*, February, 1900.

"Acute Confusional Insanity, Cerebral Syphilis — Locomotor Ataxia." A clinical lecture delivered at Cook County Hospital, Chicago. *The Clinical Review*, Chicago, August, 1900.

"Cerebral Neurasthenia; or, Failure of Brain Power with Special Reference to its Electro-Therapeutics." *Transactions of the American Electro-Therapeutic Association*, 1900.

"The Care of Insane." An address delivered before the State Association of Supervisors and of Illinois, at Joliet, Ill., February 13, 1901. *Transactions*, 1901.

A paper on treatment of epilepsy, read before the Neurological and Chicago Medical Society, April 3, 1901. *Chicago Medical Recorder.*

A paper on the prevention of insanity, read before the Society of Internal Medicine, February 28, 1900. *Journal of American Medical Association*, May 11, 1901.

"Observation on the Care and Treatment of the Insane." A paper read before the Illinois Medical Society, May 22, 1901. *Journal of the Society.*

"A Neurological Clinic." *The Medical Standard*, May, 1901.

### NORMAN BRIDGE.

"Human Temperature in Disease." Association of American Physicians, May 3, 1900. *Transactions of the Association of American Physicians;* also *Journal of American Medical Association*, July 12, 1900.

"Climate for Tuberculosis." American Medical Association, June, 1900, *Journal of American Medical Association*, October 20, 1900.

"The Climatic Conditions of the Southwest Corner of the United States." *Chicago Medical Recorder*, November, 1900.

### JOHN M. DODSON.

"The Outlook of the Medical Man of Today." Address before the graduating class of Rush Medical College, March 22, 1901. *American Medicine*, July, 1901.

"Student Records and Credits; Their Importance and Character." Read at the annual meeting of the Association of American Medical Colleges, June 3, 1901. *Bulletin of the American Academy of Medicine*, July, 1901.

"What Should the University Do for Medical Education?" *University of Wisconsin Alumni Magazine*, June, 1901.

### A. C. COTTON.

"Diagnosis and Treatment of Heart Disease in Children." Adams County Medical Society, Quincy, Ill., October, 1900. *Proceedings of the Society.*

"Some Cardiopathies of the Developing Period." Society of Internal Medicine, October 25, 1900. *Pediatrics*, May 1, 1901.

"Pulmonopathies of Childhood." Northern Illinois Medical Association, LaSalle, December 4, 1900. *Transactions.*

"Catarrhs of Juvenile Respiratory Tract." Chicago Pediatric Society, December, 1900. *Pediatrics.*

"Cretinism." Presentation of case. Chicago Medical Society, May, 1901. *Chicago Medical Recorder.*

"Tuberculous Peritonitis in Childhood." Illinois State Medical Society, Peoria, May 21, 1901. *Illinois Journal.*

"A Monster," with classification and illustrations. American Medical Society, Niagara Falls, May 29, 1901. *Archives of Pediatrics.*

"Diabetes Mellitus in Childhood." American Medical Association, St. Paul, June 6, 1901. *The Journal.*

"Amaurotic Family Idiocy." Thesis before Chicago Academy of Medicine, June 14, 1901. *Archives of Pediatrics.*

"Medical Examination of Children for Life Insurance." Prudence Examiners' Association, June, 1901. *The Medical Examiner and Practitioner.*

"President's Second Annual Address." Chicago Pediatric Society, 1900. *Doctor's Magazine*, July, 1901.

### JAMES B. HERRICK.

"Notes on Diabetes." *American Journal of Medical Sciences*, July, 1900; also *Transactions of the Association of American Physicians*, 1900.

"The Diagnosis of Diabetes Mellitus." *Journal of American Medical Association*, January 26, 1901.

"Some Points in the Diagnosis of Gall Stones." *Ibid.*, April 20, 1901.

"Discussion on Malaria." *Chicago Medical Recorder*, January, 1901.

"Symptomatology of Cardiac Neuroses." *Ibid.*, February, 1901.

"The Treatment of Ulcer of the Stomach." *Ibid.*, May, 1901.

### JOHN A. ROBISON.

"The State Prevention of Tuberculosis." Transactions of the Illinois State Medical Society. *Journal of the Illinois State Society*, May, 1901.

"Ocean Climates: Their Effects and the Cases They Benefit." Transactions of the Chicago Climatological and Laryngological Society. *Journal of the American Medical Association*, May, 1901.

"The Diagnosis and Prognosis of Cardiac Neuroses." *Chicago Medical Recorder*, February, 1901.

"Membranous Colitis." Presidental address of Chicago Society of Internal Medicine. *Journal of the American Medical Association*, February, 1901.

"The Need of an Inter-State Society for the Prevention of Consumption." Read before American Congress of Tuberculosis. *The Sanatarian.*

"Evidence that Bovine Tuberculosis is Communicable to Man Either by Direct Contact or by Food Infection." *Journal of the American Medical Association*, Vol. XXXIV, January 29, 1900.

### HAROLD N. MOYER.

"The So-called Traumatic Neuroses." *American Medicine*, Vol. I, No. 12, p. 550.

### J. A. CAPPS.

"Four Cases of Malaria Associated with Acute Abdominal Pain." *Journal of the American Medical Association*, July 3, 1900.

"A Preliminary Report on Some Observations of the Blood in Anemia." *Ibid.*, February 16, 1901.

### F. S. CHURCHILL.

"Williams, on Diseases of Children." Revision with notes and additions. American edition, 1900.

"So-called 'Cyclical Albuminuria'" (with preliminary report of case). American Pediatric Society, May, 1901. *Archives of Pediatrics.*

### THOMAS R. CROWDER.

"Generalized Tuberculous Lymphadenitis, with the Clinical and Anatomical Picture of Pseudolukæmia; the Study of a Case." *New York Medical Journal*, September, 1900.

"Three Cases of Osseous Stylo-hyoid Arch." *Medicine*, May, 1901.

### I. A. ABT.

"A Case of Congenital Goitre and Diaphragmatic Hernia." *Chicago Medical Recorder*, August, 1900.

"A Case of Laryngeal Stenosis. A Case of Infantile Scurvy." *Ibid.*, March, 1901.

"Floating Kidneys in Children." *Journal of the American Medical Association*, April 27, 1901.

"The Cardiac Lesions of Infancy and Childhood." *Medicine*, July, 1901.

### ROSA ENGELMANN.

"History of a Case of Parencephalitis." *Annals of Gynecology and Pediatrics*, June, 1900, Vol. VIII.

"The Essential Conditions for Habitation to Develop and Maintain Healthful Family Existence." *Medical News*, September, 1900.

"Hydrocele in Children." *Woman's Medical Journal*, 1900.

### SYDNEY KUH.

"Cerebral Localization." *Journal of the American Medical Association*, August 25, 1900.

## VIII. DEPARTMENT OF SURGERY.

### NICHOLAS SENN.

"Practical Surgery." W. B. Saunders, 1901.

"Edition of Esmarch and Kowalzig's Surgery." Macmillan & Co.

"Present Status of Carcinoma Questioned." *Journal of the American Medical Association.*

"Central American Medical Aspect." *Journal of the American Medical Association.*

### CHRISTIAN FENGER.

"Conservative Operations for Renal Retention." Report to the Section of Surgery of Urogenitary Organs in the International Medical Congress in Paris, 1900 (coöperators, Professor Küster, of Marburg, Germany, and Professor Bazy, of Paris). Transactions of the International Congress of Medicine; *Annals of Surgery*, April, 1901, p. 369.

"Conservative Operationen in renaler Retention." *Langenbeck's Archiv für klinische Chirurgie*, Bd. 62, Heft 3. Abstract of "Conservative Operation bei renaler Retention." *Monatsberichte über die Gesamtleistungen auf dem Gebiete der Krankheiten des Harn- und Sexualapparatus*, Bd. V, No. 11, 1900.

"A Loop around the Hyoid Bone as an Aid in Narcosis during Certain Operations on the Lower Jaw and in the Mouth, and in After-Treatment." *American Medical Association*, 1900; *Annals of Surgery*, No. 6, June, 1901, p. 673.

"Traumatic Aneurysm of the Carotid." Diagnosis of Renal Calculi. Discussion in the Chicago Surgical Society. *Ibid.*, 1900, pp. 342–7.

"Ileus." *Annals of Surgery*, 1901, p. 494.

### ARTHUR DEAN BEVAN.

"The Diagnosis of Stone in the Kidney by the X Ray, and Surgical Treatment." *Annals of Surgery*, March, 1901.

"Traumatic Neuroses from the Standpoint of a Surgeon." *Journal of the American Medical Association*, September, 1900.

### WILLIAM T. BELFIELD.

"Section of Genito-Urinary Diseases and Syphilis." *Progressive Medicine*, December, 1900.

### TRUMAN W. BROPHY.

"Surgical Treatment of Palatal Defects." Third International Dental Congress, Paris, August 8, 1900. *Dental Cosmos*, April, 1901.

### ALFRED I. BOUFFLEUR.

"Surgery of the Stomach." *Philadelphia Medical Journal*, Vol. VII, No. 4, February, 1901.

### F. S. COOLIDGE.

"Chicago Letter." *St. Paul Medical Journal*, December, 1900.

"New Points in Tendon Surgery." *Annals of Surgery*, May, 1901.

### E. J. SENN.

"Subtrochanteric Amputation for Diffuse Skin Carcinoma." *Journal of the American Medical Association*, December 8, 1900.

"A Plea for Enterostomy in Acute Intestinal Obstruction." *Annals of Gynecology and Pediatry*, March, 1901.

"Operative Treatment of Saddle Nose, with two Illustrative Cases." *American Medicine*, June, 1901.

### C. A. PARKER.

"A Description of the Appearances in Five Cases of Diaphragmatic Hernia." *Medicine*, June, 1901.

"Observations on the Appendix Vermiformis Made in Dissecting Room of Rush Medical College." *Practical Surgery*, Senn, pp. 706, 707.

### ERNEST J. MELLISH.

"Cholecystectomy and Cholecystostomy." *Journal of the American Medical Association*, Vol. XXXV, p. 47.

"Report of a Case of Large Vesical Calculus." *Annals of Surgery*, Vol. XXXIII, p. 347.

### PHILIP SCHUYLER DOANE.

"Acute Intussusception in an Infant; Operation, Recovery, Relapse in Three and One-Half Months; Second Operation and Recovery." *Medicine*, April, 1901.

## IX. DEPARTMENT OF OBSTETRICS AND GYNECOLOGY.

### J. CLARENCE WEBSTER.

"Human Placentation; An Account of the Changes in the Uterine Mucosa and the Attached Fetal Structures." Monograph. Chicago: W. T. Keener & Co.

"Separation of the Recti Abdominis Muscles and Stretching of the Linea Alba." *Journal of the American Medical Association*, 1900.

"Two Cases of Cesarean Section and One in Which Abdominal Section was Necessary Because of the Rupture of the Uterus." *Western Medical Review*, 1901.

### FRANK A. STAHL.

"Curage; Two Advantages that it Possesses over Curettage." *American Gynecology and Obstetrical Journal*, October, 1900.

"A Fibromatous Uterus in Labor." *American Gynecological and Obstetrical Journal*, November, 1900.

### HENRY FOSTER LEWIS.

"The Treatment of Impacted Cases." *Illinois Medical Journal*, July, 1900.

"Prolapsus Uteri." *Chicago Clinical Review*, October, 1900.

"Specialism in Medicine." *Chicago Clinical Review*, May, 1901.

"The Examination of Women for Life Insurance." *Medical Examiner and Practitioner*, 1900.

### PALMER FINDLAY.

"Arterio-sclerosis of the Uterus, with a Report of a Case of So-called 'Apoplexia-Uteri.'" *American Journal of Obstetrics*, Vol. XLIII, No. 1, 1901.

"Pressure Therapy in Gynecology and Obstetrics." *Chicago Medical Recorder*, October, 1900.

"Hyperplastic Glandular Endometritis." *American Journal of Obstetrics*, 1901.

## X. DEPARTMENT OF DISEASES OF THE CHEST, THROAT, AND NOSE.

### E. Fletcher Ingals.

"Relation of Tuberculosis to Life Insurance." American Medical Association, June, 1900. *Journal of the American Medical Association.*

"Sympathetic Cough Cured by Removal of Spur from Nasal Septum." Presented to the Pan-American Congress, Havana, Cuba, February, 1901. *Transactions of Pan-American Congress.*

"Diagnosis of Myocarditis and Fatty Degeneration of the Heart." Read before Chicago Medical Society, June 23, 1901. *Chicago Medical Recorder.*

"Adrenaline and Adrenaline Chloride." Read before the Chicago Laryngological and Climatological Society, February 28, 1901. *Journal of the American Medical Association.*

"Mediastinal Tumors." Read before the Illinois State Medical Society, May, 1901. *Illinois Medical Journal*, May, 1901.

"Diagnosis of Diaphragmatic Hernia." Read before the Chicago Laryngological and Climatological Association, April, 1901. *Journal of the American Medical Association*, June 21, 1901.

"Diseases of the Nose and Larynx." (With H. G. Ohls.) *American Year Book of Medicine and Surgery.*

### John Edwin Rhodes.

"Pocket Dose Book." Revised. Sharp & Smith, 1900.

"Some Interesting Throat Paralyses in a Case of Locomotor Ataxia of an Irregular Form." Proceedings of Chicago Laryngological and Climatological Society. *Journal of the American Medical Association*, June 22, 1901.

"Chancre of the Tonsil, with Report of Thirty-five Cases." American Laryngological Association, May 27, 1901. *Transactions of American Laryngological Association*, 1901.

### Charles J. Whalen.

"Heredity and Environment." *Dental Review*, October 15, 1900.

"Treatment of Tuberculosis of Lungs." *Medicine*, September, 1900.

"Epithelioma, Report of Two Cases — One of Slow and the Other of Rapid Growth." *Journal of the American Medical Association*, October 13, 1900.

A Febrile Typhoid." *Ibid.*, February 2, 1901.

### O. T. Freer.

"The Treatment of Adenoid Vegetations in the Nasopharynx." Chicago Laryngological and Climatological Society, July 5, 1900. *Journal of the American Medical Association*, p. 1340, November 24, 1900.

"Thyroid Tissue in the Larynx and Trachea." Chicago Laryngological and Climatogical Society, November 15, 1900. *Ibid.*, March 30, 1901.

"A Nasal Irrigator, Intratracheal Spray, and Laryngeal Applicator." *Ibid.*, February 16, 1901, p. 457.

"A Mediastinal Tumor," by Dr. E. Fletcher Ingals and Dr. O. T. Freer. Illinois State Medical Society. (Abstract in the *Illinois Medical Journal* for May, 1901, p. 587, by Dr. E. Fletcher Ingals.) Presented to the Rush Medical College Society by Dr. O. T. Freer. Transactions of the Rush Medical College Medical Society for April, 1901. *Illinois Medical Journal.*

### George Morgenthau.

"Symptoms and Diagnosis of Hypertrophy of the Pharyngeal Tonsil." *Journal of the American Medical Association*, November 11, 1900.

## XI. DEPARTMENT OF OPHTHALMOLOGY AND OTOLOGY.

### F. C. Hotz.

"Methods of Clinical Instruction and the Management of Clinics." *Bulletin of the American Medical Academy*, Vol. V, 1900.

"On the Efficacy of Protargol in Pyogenic Affections of the Eye." *Journal of the American Medical Association*, September, 1900.

"Camphoroxol and Menthoxol in Diseases of the Ear." *Annals of Otology, Rhinology, and Laryngology*, February, 1901.

### Albert B. Hale.

"Iritis Serum." *Journal of the American Medical Association*, June 30, 1900.

"Ocular Therapeutics for the General Practitioner, Holocain, Euphthalmin Protargol, Suprarenals." *Chicago Medical Recorder*, February, 1900.

"Eye Injuries Producing Similar Results in Both Eyes." *New York Medical News*, July 14, 1900.

## XII. DEPARTMENT OF SKIN, GENITO-URINARY, AND VENEREAL DISEASES.

### James Nevins Hyde.

"A Practical Treatise on Diseases of the Skin" (in conjunction with Professor Frank H. Montgomery). Sixth revised edition, pp. 863. Philadelphia: Lea Brothers & Co., 1901.

### FRANK HUGH MONTGOMERY.

"A Practical Treatise on Diseases of the Skin" (in conjunction with Professor James Nevins Hyde). Sixth revised edition, pp. 863. Philadelphia: Lea Brothers & Co., 1901.

"Transactions of the American Dermatological Association at its Twenty-fourth Annual Meeting, May 1–3, 1900." Official report by Frank Hugh Montgomery, secretary, Chicago, 1901, pp. 235.

### ALFRED SCHALEK.

"A Contribution to the Histogenesis of Melanosarcoma of the Skin." *Journal of Cutaneous and Genito-Urinary Diseases*, July, 1900, New York.

"Pseudo-Phosphaturia as the Cause of a Persistent Urethritis." *Medicine*, March, 1901, Detroit, Mich.

### H. T. RICKETTS.

"A New Mould Fungus as the Cause of Three Cases of So-called Blastomycosis or Oidiomycosis of the Skin." *Journal of Boston Society of Medical Sciences*, 1901, Vol. V.

"Blastomycetic Dermatitis." *Transactions of Chicago Pathological Society*, 1901, Vol. IV.

---

## *THE UNIVERSITY FACULTIES.*

Professor Dewey is giving courses at the University of California this summer.

Dr. J. M. Flint, Associate in Anatomy, has been, during the past six weeks, assisting the Marine Hospital in San Francisco in stamping out the plague.

Of the fifty-two text-books which are to form Teubner's collections of texts on higher mathematics, the only one to appear in English is the book on "Linear Groups" by L. E. Dickson.

Professor George W. Myers has been elected Fellow in the A. A. A. S., a life member in the Astronomische Gesellschaft, and a member of the Société Astronomique de République Française.

H. N. Whitford received the degree of Master of Science from Kansas State Agricultural College in June, 1901, and has also been appointed collaborator in the Bureau of Forestry, U. S. Department of Agriculture.

Director Francis W. Parker has published the following books:

"Talks on Pedagogics" (E. L. Kellogg & Co.); "Talks on Teaching" (E. L. Kellogg & Co.); "How to Study Geography" (Appleton); "Uncle Robert's Geography," Books I, II, and III.

Professor Frederick Starr has in preparation the following works on Mexican archæology:

"Mexican Popular Medicine;" "The Tastoanes;" "The Physical Characters of the Indians of Southern Mexico;" "Indians of Southern Mexico: An Ethnographic Album," Part II; "Notes on the Ethnography of Southern Mexico," Part II; "On Certain Peculiar Carved Stones from the State of Vera Cruz, Mexico;" "Among the Mexican Indians: A Narrative of Travel and Work;" "A Manual of Mexican Archæology."

Dr. Bradley M. Davis spends the summer at Woods Holl, Mass., in charge of the botanical department of the Marine Biological Laboratory. Courses are offered in cryptogamic botany, phanerogamic botany, and plant physiology, by a staff of five instructors. Dr. Davis' work deals specially with the sea-weeds. He will be accompanied by several present and former students of the University.

In carrying out a scientific mission to the museums of Europe under appointment by the four Royal Academies of Germany (Berlin, Leipzig, Munich, and Göttingen) for the Egyptian dictionary now being compiled by these academies, Assistant Professor Breasted has copied all the Egyptian inscriptions in Bologna, Florence, Rome, Pisa, Turin, Marseilles, Lyons, Paris, Geneva, Leyden, and London. The museums of Vienna and Naples were done privately before the appointment was made. This, therefore, completed all the great museums of Europe outside of Berlin. Included with this material are all the historical Egyptian inscriptions in Europe. These will all be translated by Professor Breasted in the oriental series, "Ancient Records," to be published by the University Press in conjunction with the Macmillan Co.

President Harper delivered an address at the inauguration of President Alderman of the Tulane University of Louisiana on March 12, 1901. At the same time he received the honorary degree of Doctor of Laws from that university. He addressed the Eastern Alumni Association of the University of Chicago at its meeting in New York city on April 8, and spoke before the Art Club of Lake Forest April 30 on "Art among the Hebrews." At the meeting of the National Educational Association at Detroit in July he presented the report of the Committee on a National University. He has been appointed a member of the Board of Visitors of the Naval Observatory for the year 1901–2, and also a member of the committee on the Olympian games.

---

Recent articles by members of the Faculties:

"Genetic Development of the Forests of Northern Michigan: A Study in Physiographic Ecology," by H. N. Whitford. *Botanical Gazette*, May, 1901.

"Notes on Foreign Schools," II, by W. S. Jackman. *Educational Review*, June, 1901.

"The System of β Lyrae," by George W. Myers. *Astrophysical Journal*, January, 1899; *Popular Astronomy*, 1899.

"Influence on Variability of a Star, of Secular Changes, of Eccentricity and Position of Line of Apsides," by George W. Myers. *Popular Astronomy*, 1898.

"Educational Value of Mathematics," by George W. Myers. *Home and School Journal*, January and February, 1901.

"Concerning the Abelian and Related Linear Groups," by L. E. Dickson. *Proceedings of the London Mathematical Society*, Vol. XXXIII, pp. 313–25, June, 1901.

"Théorie des groupes linéaires dans un domaine arbitraire de rationalité," note de M. L.-E. Dickson, présentée par M. Jordan. *Comptes Rendus des Séances de l'Académie des Sciences*, tome CXXXII, 24 Juin 1901.

"Slavery in Germanic Society During the Middle Ages," by Agnes Wergeland. *Journal of Political Economy*, December, 1900; June, 1901.

"King Harmhab and His Sakkara Tomb," by J. H. Breasted. *Zeitschrift für Aegypt. Sprache*, Vol. XXXVIII.

"Varia," by J. H. Breasted. *Proceedings of the Society of Biblical Archæology*, London, Vol. XXIII.

"The Wadi Halfa Stela of Semvosret I.," by J. H. Breasted. *Proceedings of the Society of Biblical Archæology*, London.

"Nuclear Studies on Pellia," by B. M. Davis. *Annals of Botany*, 15, 1901.

"The Histology of the Brain," by L. F. Barker. *Buck's Reference Handbook of the Medical Sciences*, Vol. II, 1901.

"Report of Commission on Bubonic Plague in San Francisco," by L. F. Barker. *Bulletin Marine Hospital Service*, 1901.

"The Fayal Alphabet," by Frederick Starr. *Unity*, June 13, 1901.

"Notes on Mandrake Superstitions," by Frederick Starr. *American Antiquarian*, July–August, 1901.

"Constructive Studies in the Priestly Element in the Old Testament," by President W. R. Harper. *Biblical World*, April–July, 1901.

"Ancient Hebrew Oracles," by W. Muss-Arnolt. *The Reform Advocate*, Chicago, Nos. 21, 22, 23, 24.

English translations of the Inscriptions of Agumkakrime, Tiglath-Pileser I., King of Assyria; The Babylonian Account of the Creation; A Second Account of the Creation; Another Account of the Fight between Marduk and Tiamat; Shorter Babylonian Legends; The Gilgamesh Narrative, usually called the Babylonian Nimrod Epic; Other Accounts of and References to the Deluge; Some Babylonian Laws; Some Proverbs and Sayings; contributed by W. Muss-Arnolt to "Assyrian and Babylonian Literature. Selections in English Translation," edited by Robert Francis Harper. D. Appleton & Co., 1901.

---

Recent reviews by members of the Faculties:

P. Jensen: "Assyrisch-babylonische Mythen und Epen;" and, J. Rosenberg: "Assyrische Sprachlehre und Keilschriftkunde für das Selbststudium." W. Muss-Arnolt, *American Journal of Semitic Languages and Literatures*, January, 1901.

Marshall: "The Mushroom Book." B. M. Davis, *Botanical Gazette*, 31, p. 358, 1901.

Peck: "Report of State Botanist on Edible Fungi of New York." B. M. Davis, *Botanical Gazette*, 31, p. 359, 1901.

Kurt Sethe: "Sesostris." J. H. Breasted, *American Historical Review*, Vol. VI, No. 3, pp. 535 ff.

Korschelt and Steider: "Lehrbuch der vergl. Entwicklungsgeschichte der wirbellosen Tiere." (Translation.) F. R. Lillie, *Science*, May, 1901.

Page: "The End of Villainage in England." Agnes Wergeland, *Journal of Political Economy*, March, 1901.

Cunningham: "Western Civilization." Agnes Wergeland, *Journal of Political Economy*, June, 1901.

Wood: "Political Economy of Humanism." Agnes Wergeland, *Journal of Political Economy*, June, 1901.

Graham: "English Political Philosophy." Agnes Wergeland, *The Dial*, May 16, 1901.

Robertson: "Introduction to English Politics." Agnes Wergeland, *The Dial*, May 16, 1901.

Young: "Teaching of Mathematics in Prussia." George W. Myers, *School Review*, May, 1901.

Dewey: "The School and Society." A. W. Moore, *Review of Education*, July, 1901.

Ormond: "The Foundations of Knowledge." J. H. Tufts, *Philosophical Review*, January, 1901.

Bergson: "La Rire." J. H. Tufts, *Psychological Review*, January, 1901.

W. Graham: "English Political Philosophy from Hobbes to Maine." J. H. Tufts, *American Historical Review*, January, 1901.

Rand: "Shaftesbury's Life, Letters and Philosophical Regimen." J. H. Tufts, *American Historical Review*, April, 1901.

Thilly: "Outlines of Ethics" J. H. Tufts, *American Journal of Theology*, January, 1901.

Arber: "British Anthologies": III, The Spenser Anthology, 1548–1591; IV, The Shakespeare Anthology, 1592–1616; V, The Jonson Anthology, 1617–1637. A. H. Tolman, *Jahrbuch der deutschen Shakespeare Gesellschaft*, XXXVII, 1901.

"Encyclopedia Biblica," articles on Old Testament Introduction. W. R. Harper, *American Journal of Theology*, April, 1901.

---

## Books published by members of the Faculties:

"Experimental Physics, Translation," by George W. Myers. Kegan Paul, Trench, Trübner & Co., London.

"Methods of Plant Histology," by C. J. Chamberlain. The University of Chicago Press.

"Linear Groups, with an Exposition of the Galois Field Theory," by L. E. Dickson. ix+312 pp. "Teubner's Sammlung von Lehrbüchern auf dem Gebiete der mathematischen Wissenschaften mit Einschluss ihrer Anwendungen." Leipzig, 1901.

"A New Chapter in the Life of Thutmose III.," by J. H. Breasted. Hinrichs, Leipzig, 1900.

"Theological and Semitic Literature for the Year 1900," by W. Muss-Arnolt. 108 pp. The University of Chicago Press, 1901.

"A Concise Dictionary of the Assyrian Language," by W. Muss-Arnolt. Parts 10 and 11 (pp. 577–704). Reuther & Reichard, Berlin, 1901.

---

## Recent addresses by members of the Faculties:

"The Passion Play at Oberammergau," by T. L. Neff, before the Twentieth Century Club, Greencastle, Ind., March 29, 1901.

"The Importance of the Study of Chemistry as a Preparation for Medicine, by L. F. Barker, at the University of Wisconsin, May 9, 1901.

"The Clinical Aspects of Bubonic Plague," by L. F. Barker, before Association of American Physicians, Washington, May 1, 1901.

"The Profession of Nursing and its Future," by L. F. Barker, at Lake Side Hospital, Cleveland, May 29, 1901.

Six addresses on the subjects: (1) "Expository Preaching;" (2) "Illustration of the Same by an Outline Exposition of Two Passages of Scripture;" (3) "Textual and Topical Preaching;" (4) "Chrysostom;" (5) "The Sermon on the Mount," homiletically treated; (6) "The Preaching of Christ," by Galusha Anderson, Pella, Ia., July 3 to 7, 1901.

"The First Reformer," by J. H. Breasted, before the Franco-English Guild, Paris, March 28, 1901.

"Studies in the Origin and Development of Habit," by Ella F. Young, before the Pedagogical Society of St. Louis, St. Louis, Mo., April 27, 1901.

"Ethics in the School," by Ella F. Young, at Oswego, N. Y., June 25, 1901.

"The Kindergarten in the Twentieth Century," by Bertha Payne, at a kindergarten convention, Buffalo, N. Y., July 3, 1901.

"Deutsche Beiträge zum amerikanischen Geistesleben der Gegenwart," by S. W. Cutting, before the Nationalen deutsch-amerikanischen Lehrerbund, at Indianapolis, July 11, 1901.

"How Parents May Enlist the Interest of Children in Nature Study," by W. S. Jackman, before Congress of Mothers, Charleston, Ill., May 18, 1901.

"Modern Tendencies in Secondary Education," by G. H. Locke, before the Convocation of the University of the State of New York, Albany, July 2, 1901.

"Professional Training for Persons Intending to Teach in Our Secondary Schools," by G. H. Locke, before the National Educational Association, Detroit, July 10, 1901.

---

## OFFICIAL NOTICES.

FINAL EXAMINATIONS for Higher Degrees are held as follows:

### DOCTOR OF PHILOSOPHY.

THOMAS LOUIS COMPARETTE. Subjects: Latin, Greek, and Archæology. C 2 B; June 29, 1901, 2:30 P.M.

THOMAS MILTON PUTNAM. Subjects: Mathematics, Astronomy. R 36; July 16, 1901, 3:00 P.M.

DAVID LEE MAULSBY. Subjects: English, Romance, and Germanic Philology. C 4 D; July 22, 1901, 3:30 P.M.

EDGAR HOWARD STURTEVANT. Subjects: Sanskrit and Comparative Philology, Latin. C 2 B; July 22, 1901, 4:00 P.M.

CLIFTON DAGGETT GRAY. Subjects: Assyrian, Old Testament. Haskell 23; August 9, 1901, 3:00 P.M.

### BACHELOR OF DIVINITY.

JOHN FRANKLIN BOEYE. Haskell 36; July 3, 1901, 10:30 A.M.

FRED DELISLE FINN. Haskell 28; July 23, 1901, 3:30 P.M.

### MASTER OF ARTS.

LUCIEN HATFIELD BUGBEE. Subject: Biblical and Patristic Greek. Haskell 28; July 25, 1901, 4:30 P.M.

WILLIAM KENNON MATTHEWS. Subject: Biblical and Patristic Greek. Haskell 28; July 26, 1901, 4:30 P.M.

---

The Alliance Française, in coöperation with the University of Chicago, makes the following announcements:

Courses AA and BB (Elementary French for beginners) will be repeated during the second term, provided enough applications are received.

Courses GG, HH, and II (given during the second term in French on French Institutions and Art in France) are open to non-matriculated students on payment of a special fee.

For all these courses University credit is given to matriculated students. *Special Circular* at Information Office.

A club for French conversation and reading is about to be formed, and will meet during the second term two or three times a week. Persons desiring to join may send their names and addresses to Assistant Professor Ingres, Faculty Exchange.

## THE UNIVERSITY CONGREGATION.

### THE TWENTY-FIFTH MEETING.

The twenty-fifth meeting of the University Congregation was held in Congregation Hall, Haskell Oriental Museum, June 14, 1901, at 2:30 P. M. President Harper occupied the chair. Fifty-five members were present. The prayer was offered by the University Chaplain, Mr. Henderson. The result of the election by the respective classes of members in the University Congregation of their representatives in the University Senate and the University Council for the coming year was announced as follows:

As representatives of the Doctors of Philosophy and the Masters of Arts, Philosophy, or Science:

Senator, Professor Edward Capps.

Councilor, Associate Professor George E. Vincent.

As representatives of the Bachelors of Divinity:

Senator, Professor Charles R. Henderson.

Councilor, Professor E. D. Burton.

As representatives of the Bachelors of Arts, Philosophy, or Science:

Senator, Professor Robert F. Harper.

Councilor, Professor Galusha Anderson.

The welcome to the new members of the Congregation was given by Vice-President Chamberlin. The following new members were welcomed and signed the roll:

George Sutherland; Gerald B. Smith; Samuel B. Sinclair; Sophonisba P. Breckenridge; Frederick W. Shipley; F. G. Franklin; Annie M. MacLean; Gilbert A. Bliss; John C. Hessler; Norman D. Harris.

The following resolution proposed for discussion was taken up:

*That, in the interests of scholarship and justice, the degree of Doctor of Philosophy be hereafter conferred without grade.*

The brief upon the proposition prepared by the committee, Messrs. Mathews and Freund, was presented in printed form and expounded by the committee. After discussion by Messrs.

Tufts and Judson, the action contemplated in the proposition was rejected by the Congregation. The thanks of the Congregation were voted to the committee for the admirable presentation of facts on the subject in their brief.

The chairman then called attention to some important actions taken by University Ruling Bodies during the Spring Quarter, as reported in the printed statement submitted to the Congregation. The report of the Treasurer was postponed until the next meeting. The committee appointed to nominate officers for the ensuing quarter and year made the following recommendations, which were approved:

For Vice-President for the ensuing quarter, Professor J. M. Manly.

For Treasurer for the ensuing year, Dr. James H. Boyd.

For Marshal for the ensuing year, Associate Professor George E. Vincent.

The chairman appointed as the committee on the nomination of officers for the following meeting: Messrs. Chamberlin and Mead, and Miss Talbot.

The Congregation thereupon adjourned with the benediction by the Chaplain.

---

The following persons were elected by the Alumni Association as representatives of the Alumni in the University Congregation for the term of 1901–1911:

*Bachelors of Art, Philosophy, and Science.*—George A. Woodworth, Grace Read,' Henry I. Bosworth, Ella Haigh Googins, Elisabeth Cooley Bruner, Hervey W. Booth, Jessie Waite Wright, Eugene Parsons, Charles E. R. Mueller, Luther G. Bass.

*Bachelors of Divinity.*—Orson P. Bestor, John Gordon, A. R. E. Wyant, Herbert L. Stetson, Bower R. Patrick.

*Masters of Art, Philosophy, and Science.*—Caroline S. Maddocks, Vernon P. Squires, Mary P. Sturges, John B. Curtis, Ada Zarbell.

---

## CURRENT EVENTS.

The University has just concluded the installation of an exhibit at the Pan-American Exposition. The exhibit consists of:

1. Statistical and graphic charts, showing the growth and development of the University. These charts, about forty in number, are 22 × 28 inches in size.

2. A specially prepared collection of photographs, including the following:

*a*) Photographs of all the buildings.
*b*) Interiors of Women's Dormitories.
*c*) Interior of Walker Museum.
*d*) Interior of the Physical Laboratory.
*e*) Interior of a Departmental Library.
*f*) A collection of photographs showing the equipment of the Yerkes Observatory.

3. The Department of Physics is represented by an exhibit of apparatus used in special research work in the department. The instruments included are:

*a*) Harmonic analyzer.
*b*) Ruling engine.
*c*) Interferometer (for lengths).
*d*) Interferometer (for angles).
*e*) Gratings.
*f*) Echelon spectroscope.

4. The development and growth of the different departments of the University Extension Division is fully set forth in a fine collection of charts especially prepared for this purpose.

5. A special feature of the exhibit is a series of seven astronomical photographs, 25 × 30 inches, prepared by the Yerkes Observatory. These are printed on glass and mounted in a specially prepared case, which will be illuminated by electric lamps. Inasmuch as the photographs are the largest of the kind ever made, they will be of unusual interest to students of astronomy.

---

In pursuance of the plans made at the time of the affiliation of the Alliance Française with the University of Chicago to bring from time to time distinguished Frenchmen to this city for the purpose of giving courses of lectures on the History, Art, Literature, and Institutions of their native country, MM. Henri Bréal and Théodore Jongres will spend the second term of the current quarter at the University.

M. Bréal, who is the son of the distinguished professor in the Collège de France, Michel Bréal, is a brilliant young attorney in Paris, and has the reputation of being an exceptionally attractive public speaker. It was he who presented the claims of Chicago to the Olympian Games Commission. He is announced to deliver two courses of twenty-five lectures each. The first course is devoted to French History, and will be delivered daily at 9 o'clock A.M. In the second course, which will be delivered at 1:30 P.M. daily, M. Bréal will consider French Political, Social, Economic, and Educational Institutions.

M. Jongres is a painter of animals. His most recent painting, " Farm Horses," exhibited in the Salon during the past year, has attracted much attention. He will lecture at 10:30 A.M. daily on French Architecture, Sculpture, and Painting. Special attention will be given to Contemporary Art, Applied Art, and the Schools and Galleries of France; also Classical, Romantic, and Landscape Painting.

All the lectures of these courses will be delivered in French at the University, beginning Monday, July 29.

In view of the many requests which have been received from residents of the city, arrangements have been made to throw these courses open to the general public on the payment of a small fee: $10 for one course, $15 for two, and $20 for the three courses.

---

## THE ALUMNI.

### NOTES AND COMMUNICATIONS.

Anna L. Van Benschoten, '00, of Binghampton, N. Y., is spending the summer in Germany.

William N. Mebane, Ph.D., '99, pastor in Fredericksburg, Va., has accepted a call to Hanover, Ind.

Ralph S. Lillie, Ph.D., '01, has accepted an assistantship in physiology in Harvard Medical School. He is an instructor at the Marine Biological Laboratory, Woods Holl, Mass., for the summer.

Effie Thompson, graduate student, has accepted a position to teach Greek in Earlham College, Richmond, Ind.

Charles S. Winston, '96, has charge of the engineering work with the Kellogg Switch Board Company of Chicago.

John M. Gillette, Ph.D., '01, has been appointed principal of the Jacksonville, Ill., Academy for Young Women.

Henry T. Colestock, D.B., '99, pastor at Madison, Wis., has received the degree of Ph.D. (honorary) from Bucknell University.

Hannah B. Clark, Ph.D., '97, has been made assistant professor of sociology in the West Virginia University at Morgantown, W. Va.

Adolph C. von Noé, '01, teacher in Burlington (Iowa) Institute, has been made assistant in German at Leland Stanford Junior University.

C. H. Gordon, Ph.D., '95, superintendent of schools at Lincoln, Neb., has been appointed as lecturer on school supervision in the University of Nebraska.

Lee Byrne, A.M., '99, formerly teacher in Bradley Polytechnic Institute at Peoria, Ill., has gained a fellowship in Greek at the University of Pennsylvania.

Charles L. Burroughs, '99, will enter the University of Pennsylvania in the autumn for a postgraduate course. He holds the Harrison fellowship in history.

William C. Alden, '98, field assistant to the United States Geological Survey under Professor Chamberlin, is now preparing a report on his work in Wisconsin.

Ormsby E. Pettet, '00, is assisting in the work of wiring the buildings at the University preparatory to using electricity as soon as the new power house is completed.

T. B. Glass, former fellow in Greek and professor of Greek in Washburn College, Topeka, Kan., has accepted the chair of Greek in Monmouth College, Ill.

William E. Moffatt, '96, assistant in Latin at Bradley Polytechnic Institute, Peoria, Ill., has accepted a position in the Latin department at Lewis Institute, Chicago.

Arthur C. Chute, D.B., '83, recently received the degree of D.D. from Acadia College, Canada, where he has been appointed to the chair of Hebrew and systematic theology.

Rev. George Cross, Ph.D., '00, pastor of the Aylmer, Ont., church, has been appointed to take the professorship of church history at McMaster University, Toronto, for the next academic year.

Hugo Jone, '95, city chemist of Chicago, is experimenting on a process for converting coal directly into electricity. He patented the process two years ago and since then has been gradually improving it.

Thomas J. Taylor, '94, formerly principal of the school at Bathgate, N. D., sailed recently for the Philippine Islands, where he has an appointment under the new school system established by the government.

Charlotte J. Cipriani, '97, recently received the degree of doctor of letters from the University of Paris. She was granted the first doctor's degree ever conferred upon a woman by that university. Her thesis was "A Study of Certain Proper Names of German Origin."

On the Faculty for the Summer Quarter are the following alumni who are members of the faculties of other institutions: Fred. B. R. Hellems, Ph.D., '98, professor of Latin, University of Colorado; Otis W. Caldwell, Ph.D., '98, professor of botany, Eastern Illinois Normal School; Theodore C. Burgess, Ph.D., '98, assistant professor of Greek and Latin, Bradley Polytechnic Institute; Herbert N. McCoy, Ph.D., '98, associate professor of chemistry, University of Utah; William D. Merrell, Ph.D., '98, instructor in botany, University of Rochester; Johannes B. E. Jonas, Ph.D., '99, instructor in German, Purdue University; John H. McDonald, Ph.D., '00, instructor in mathematics, Burlington Institute.

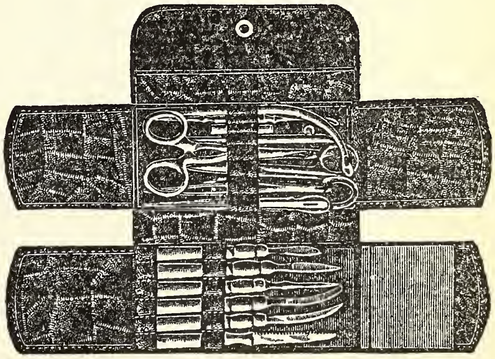
Reichert Microscopes
MICROTOMES
AND
ACCESSORIES

EVERYTHING FOR THE BACTERIOLOGICAL, CHEMICAL AND PHYSICAL LABORATORY

Physicians and others interested are invited to send us their addresses in order that we may send to them our new "Descriptive and Illustrated List of Special Apparatus for Blood and Urine Analysis," just published.

RICHARDS & CO., Ltd.
NEW YORK
12 East 18th Street
CHICAGO
108 East Lake Street

SHARP & SMITH'S
LEADER
A COMPLETE POCKET CASE
For $5.00



SURGICAL INSTRUMENTS
HOSPITAL SUPPLIES
92 Wabash Avenue, Chicago
Two doors north of Washington St.

## OFFICIAL REPORTS.

### THE LIBRARY.

During the Spring Quarter, April 1 to July 1, 1901, there has been added to the library of the University a total number of 3697 volumes, from all sources:

Books added by purchase, 2313 volumes, distributed as follows:

General Library, 365 vols.; Philosophy, 13 vols.; Education, 21 vols.; Policical Economy, 38 vols.; Political Science, 70 vols.; History, 1093 vols.; Classical Archæology, 9 vols.; Sociology, 35 vols.; Sociology (Divinity), 14 vols.; Anthropology, 27 vols.; Comparative Religion, 5 vols.; Semitic, 3 vols.; New Testament, 7 vols.; Sanskrit and Comparative Philology, 23 vols.; Greek, 41 vols.; Latin, 36 vols.; Latin and Greek, 32 vols.; Romance, 3 vols.; German, 13 vols.; English, 71 vols.; Mathematics, 17 vols.; Astronomy (Ryerson), 8 vols.; Astronomy (Yerkes), 16 vols.; Chemistry, 8 vols.; Physics, 26 vols.; Geology, 7 vols.; Zoölogy, 59 vols.; Anatomy, 14 vols.; Neurology, 20 vols.; Physiology, 8 vols.; Botany, 11 vols.; Public Speaking, 10 vols.; Church History, 10 vols.; Systematic Theology, 32 vols.; Morgan Park Academy, 27 vols.; Dano-Norwegian Theological Seminary, 17 vols.; Dano-Norwegian and Swedish Theological Seminary, 4 vols.; Literature in English (Department XVI), 18 vols.; Commerce and Administration, 81 vols.; Physical Culture, 1 vol.

Books added by gift, 970 volumes, distributed as follows:

General Library, 549 vols.; Philosophy, 1 vol.; Education, 12 vols.; Political Economy, 14 vols.; Political Science, 2 vols.; History, 71 vols.; Classical Archæology, 1 vol.; Semitic, 1 vol.; New Testament, 7 vols.; Sanskrit and Comparative Philology, 4 vols.; Latin, 106 vols.; Latin and Greek, 1 vol.; English, 47 vols.; Mathematics, 1 vol.; Astronomy (Ryerson), 2 vols.; Physics, 1 vol.; Geology, 8 vols.; Biology, 72 vols.; Zoölogy, 3 vols.; Physiology, 2 vols.; Botany, 5 vols.; Church History, 3 vols.; Systematic Theology, 1 vol.; Swedish Theological Seminary, 11 vols.; Dano-Norwegian Theological Seminary, 26 vols. Music, 8 vols.; Literature in English (Department XVI), 9 vols.; Commerce and Administration, 1 vol.; President's Office, 1 vol.

Books added by exchange for University publications, 414 volumes, distributed as follows:

General Library, 146 vols.; Education, 45 vols.; Political Economy, 31 vols.; Political Science, 1 vol.; History, 3 vols.; Sociology, 15 vols.; Anthropology, 2 vols.; Comparative Religion, 11 vols.; Semitic, 3 vols.; New Testament, 29 vols.; English, 1 vol.; Astronomy (Yerkes), 27 vols.; Physics, 1 vol.; Geology, 30 vols.; Neurology, 1 vol.; Botany, 13 vols.; Church History, 33 vols.; Systematic Theology, 16 vols.; Homiletics, 3 vols.; Haskell, 2 vols.; Semitic and New Testament, 1 vol.

**Post-Graduate Medical School of Chicago**

**2400 DEARBORN STREET**

W. FRANKLIN COLEMAN, M.D., President

W. L. BAUM, M.D., Treasurer

Permit us to call your attention to some of the advantages offered in our General Course for 1901.

There will be actual clinical work beginning each day at 9 o'clock A.M., and continuing until 6 o'clock P.M. Didactic lectures evenings upon such special topics as the class may desire. The clinical material in all departments is very abundant, and you examine, diagnose, and treat these cases under the supervision of the professor in charge. Classes are small, thereby virtually giving you individual instruction.

We have a hospital in the same building. The operating rooms have been so arranged that you are near enough to the operator to observe the most minute operations. The members of our faculty attend their clinics in person, and you will be kept busy all day in our own building.

We are located in the medical center and can, if you desire, give without extra fees the opportunity of witnessing the work of the best operators of Chicago in some ten of the leading outside hospitals.

Fee for General Course for one month, $55.00. (This amount includes matriculation fee, which is good for life.)

Prof. F. Robert Zeit gives special Practical Courses on Pathology and Bacteriology.

Special courses are given on Surgical Anatomy and Operative Surgery on the Cadaver, also for Intestinal Surgery on dogs.

Prof. A. R. Elliott gives special courses on Urinary Analysis, chemical and microscopical.

For complete information regarding our School, send for Illustrated Bulletin No. 7.

ARTHUR R. ELLIOTT, M.D., Vice President

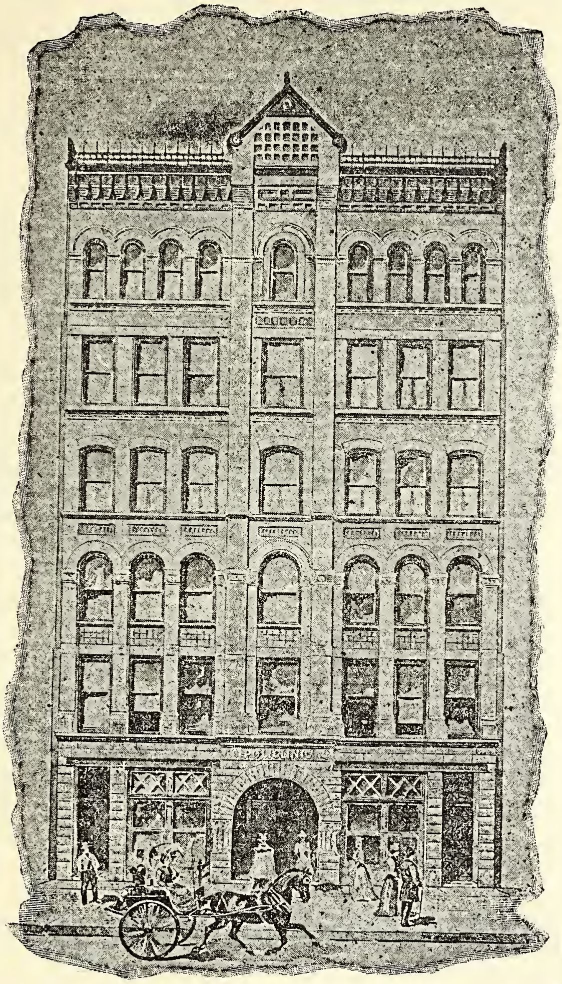
ALEX HUGH FERGUSON, M.D.

POST-GRADUATE MEDICAL SCHOOL

**FRANKLIN H. MARTIN, M.D., Secretary.** ❧ ❧ ❧ **2400 Dearborn Street, CHICAGO**

# CHICAGO POLICLINIC

## *A Clinical School for Graduates in Medicine and Surgery*



### FACULTY

SURGERY

Christian Fenger, M.D.
Malcolm L. Harris, M.D.
Edwin M. Smith, M.D.
J. Frank, M.D.
Nicholas Senn, M.D.
Weller Van Hook, M.D.
A. E. Halstead, M.D.

GYNECOLOGY

Fernand Henrotin, M.D.
Chas. E. Manierre, M.D.
A. Belcham Keyes, M.D.
Henry Banga, M.D.
Henry P. Newman, M.D.

OPHTHALMOLOGY

J. Elliott Colburn, M.D.
W. H. Wilder, M.D.
G. W. Mahoney, M.D.
Ferd C. Hotz, M.D.
Frank Allport, M.D.

LARYNGOLOGY AND RHINOLOGY

Moreau R. Brown, M.D.
E. T. Dickerman, M.D.
C. M. Robertson, M.D.
E. F. Ingals, M.D.
O. T. Freer, M.D.

ORTHOPEDIC SURGERY

A. B. Hosmer, M.D.

PATHOLOGY AND BACTERIOLOGY

Maximilian Herzog, M.D.

RECTAL SURGERY

J. R. Pennington, M.D.

GENERAL MEDICINE AND PHYSICAL DIAGNOSIS

John H. Chew, M.D.
Otto L. Schmidt, M.D.
John Fisher, M.D.
J. M. Patton, M.D.
Henry Baird Favill, M.D.
Rob't B. Preble, M.D.

DISEASES STOMACH AND LIVER

Gustav Fütterer, M.D.
J. W. O'Neill, M.D.

SKIN AND VENEREAL DISEASES

Robert D. MacArthur, M.D.
Ralph R. Campbell, M.D.
H. G. Anthony, M.D.

GENITO-URINARY DISEASES

W. T. Belfield, M.D.

DISEASES OF CHILDREN

W. S. Christopher, M.D.
W. W. Quinlan, M.D.
J. P. Houston, M.D.

NEUROLOGY

Hugh T. Patrick, M.D.
S. J. Walker, M.D.
J. C. Gill, M.D.

OBSTRETICS

Henry Hooper, M.D.
C. S. Bacon, M.D.

OTOLOGY

Geo. F. Fiske, M.D.
Norval H. Pierce, M.D.
Alfred M. Hall, M.D.

Courses are conducted throughout the year, and with the largest clinics in the city at our command can give the Practitioner unequaled facilities for good practical work under the very best instruction. Special advantages offered to those wishing Laboratory courses, Practical Anatomy or Operative Surgery on Cadaver. For announcement and complete information regarding this and other courses, address

*Our Summer Term runs from*
*June 1st to September 1st*

Malcolm L. Harris, M.D., Secretary
176 East Chicago Avenue, Chicago, Illinois

"BEVERLY FARM"

HOME AND SCHOOL FOR NERVOUS AND BACKWARD CHILDREN

Special training for a limited number. Eighteen years' experience at Elwyn, Pa., and Lincoln, Ill., state institutions; home influences; children of any age accepted, although the younger present better opportunities for development; a permanent home provided for a few suitable cases; separate cottage for boys; 20 rooms; 130 acres; delightfully located; one hour from St. Louis via Chicago & Alton through service to Chicago, Kansas City, etc.; can accept a few mild cases of epilepsy; references given and required. Address all communications to

W. H. C. SMITH, M.D., Supt.,
Godfrey, Madison County, Ill.

**Accuracy**
**Skill**
**Quality**

These are the factors to which we attribute our **Pharmaceutical Success**

**J. J. GILL**

Rosalie Pharmacy 274 E. 57th St.

Your Stationery

BEAR IN MIND

the fact that the most convenient place to purchase the materials for your correspondence is at the University Book Store, in Cobb Hall

*An Excellent Line of Whiting's Standard Fine Writing Papers*
in all the latest styles, kept regularly in stock, both in boxes and by the quire

*Whiting's Number One Quality and Standard Linen*
are especially recommended for your inspection

*A large assortment of U. of C. Monogram Embossed Paper*

*Pads of all sizes*

ORDERS TAKEN FOR FINE ENGRAVED CALLING CARDS AT REASONABLE PRICES

*The* UNIVERSITY BOOK STORE
COBB HALL

*SOME IMPORTANT*

BOOKS ON EDUCATION

**The School and Society.** By JOHN DEWEY. (Third edition.) Supplemented by a statement of the University Elementary School. 130 pp., 12mo, cloth. $1.00.

**The Prospects of the Small College.** By PRESIDENT WILLIAM R. HARPER. 50 pp., 12mo, paper. *Net*, $0.25.

**Report of the Educational Commission of the City of Chicago.** The commission was appointed by HON. CARTER H. HARRISON, January 19, 1898, and the report is edited by PRESIDENT WILLIAM R. HARPER. (Second edition.) 250 pp., royal 8vo, paper. *Net*, $1.00.

**The Education of Business-Men.** A View of the Organization and Courses of Study in Commercial High Schools of Europe. By EDMUND J. JAMES. 232 pp., 8vo, paper. *Net*, $0.50.

**The Philosophy of the Humanities.** By THOMAS FITZ-HUGH. 63 pp., royal 8vo, paper. *Net*, $0.50.

FOR SALE BY BOOKDEALERS OR BY THE PUBLISHERS
THE UNIVERSITY OF CHICAGO PRESS, Chicago, Illinois

Pens-Pens

EASE IN WRITING
FALCON No. 048
Other Leading Numbers. 14. 130. 313. 442.
WORKS AT CAMDEN N.J.
ESTABLISHED 1860
ESTERBROOK STEEL PEN CO.
26 John St. New York.
FOR SALE BY ALL STATIONERS.

COLLARS AND CUFFS
TRADE E&W. MARK
THE BEST MADE

THE UNIVERSITY OF CHICAGO PRESS BOOK STORE
COBB LECTURE HALL

New and Important Books in Stock

| | |
|---|---|
| Chamberlain — Methods in Plant Histology | *net* $1.50 |
| Loeb — Comparative Physiology of the Brain and Comparative Psychology | 1.75 |
| Moulton — Short Introduction to the Literature of the Bible | 1.00 |
| Moody — The Masque of Judgment | 1.50 |
| Sparks — The Men Who Made the Nation | 2.00 |
| " The Expansion of the American People | 2.00 |
| Mathews — The French Revolution | 1.25 |
| Willis — A History of the Latin Monetary Union | 2.00 |
| Burton and Mathews — Constructive Studies in the Life of Christ | 1.00 |
| Henderson — Dependent, Defective and Delinquent Classes. *Second Edition* | *net* 1.50 |
| Dewey — The School and Society. *Third Edition* | 1.00 |

*All books subject to the usual discounts*

A COMPLETE LINE OF
TYPEWRITER SUPPLIES, FANCY STATIONERY, FOUNTAIN PENS, ETC.
SPECIAL ORDERS TAKEN FOR ENGRAVING, AND FOR BLANK BOOKS

A FULL LINE OF GOLF AND TENNIS BALLS HAS BEEN RECENTLY ADDED TO THE STOCK

The Book Store, Cobb Lecture Hall

COMPLETE IN IT'S SPHERE
THE BULLARD CAMERA CO.
"It's better than yours"
SPRINGFIELD, MASS. U.S.A.
A BULLARD CAMERA.

Every style of Folding Camera shows its highest development in

**A BULLARD CAMERA**

No matter what kind you want, Bullard has it with improvements and conveniences no other make supplies, together with several new styles. Fitted with special lenses of high efficiency. The product of expert designing backed by unlimited facilities. All are

**NEW THIS SEASON**

**Send for Catalogue No. 10,** showing Folding, Cycle-folding, Long-focus, Magazine-folding, Magazine-fixed-focus, Magazine with ground-glass and plate-holder arrangement — 35 Styles — the first complete line ever offered. Our "cycle folding" is brimful of new features.

**Bullard Camera Co., Springfield, Mass.**

---

Established 1874

**W. T. KEENER & CO.**

**Medical Booksellers and Importers**

**90 Wabash Ave. Chicago, Ill.**

HAVE constantly in stock the largest assortment of AMERICAN and FOREIGN MEDICAL BOOKS in the UNITED STATES.

New books sent upon approval upon terms that will be made known upon application. Catalogues and announcements of new books gratis to all.

When you want any Medical Books, or information concerning them, call on or write us.

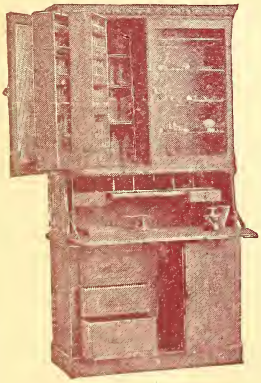
**W. T. KEENER & CO.**

**90 Wabash Ave., CHICAGO**

**Chicago Depot for W. B. SAUNDERS' Publications**

---

The Allison Physicians' Tables



STYLE 61

CHAIRS and CABINETS,

**Never Fail to Please**

Carefully selected material prepared and finished by experienced workmen, insures perfect appliances.

**ILLUSTRATED CATALOG** giving the positions of table, with details of its conveniences, also the construction of different styles of Instrument and Medicine Cabinets **sent free.**

**W. D. ALLISON CO.**

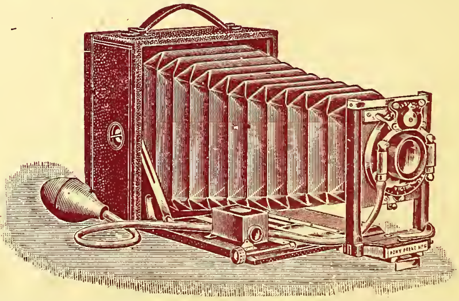
MANUFACTURERS

No. 100 East South Street - - Indianapolis, Ind.

NEW YORK OFFICE - - No. 1 Madison Avenue
BOSTON OFFICE - - No. 218 Tremont Street
CHICAGO OFFICE - - No. 65 E. Randolph Street

---

**PREMO Cameras**



Combine compactness with rigidity, and are made of best materials in every part. The Victor Lens and Shutter are specially designed. They can be secured on no other camera.

**PRICE, $8 AND UPWARDS**

*Send for Catalogue giving full description*

**ROCHESTER OPTICAL & CAMERA COMPANY**

55 South St., ROCHESTER, N. Y.

BULLETIN OF THE COURSES OFFERED DURING
THE WINTER AND SPRING QUARTERS, 1902

# RUSH MEDICAL COLLEGE

IN AFFILIATION WITH

## THE UNIVERSITY OF CHICAGO

## TABLE OF CONTENTS

Calendar of the University of Chicago - - - - - - 3
Board of Trustees of Rush Medical College - - - - 3
Representing the University of Chicago - - - - 3
Location of Rush Medical College - - - - - - - 4
Location of the University of Chicago - - - - - 4
Calendar of Rush Medical College - - - - - - 5
The Transfer of the Courses of the Freshman and Sophomore Years to the University of Chicago - - - - 5
Laboratories, Equipment, and Libraries - - - - 6
Buildings, Equipment, and Hospital Faculties at Rush Medical College - - - - - - - - - - 7
Requirements for Admission - - - - - - - - 8
Admission to Advanced Standing - - - - - - - 11
Requirements for Graduation - - - - - - - - 12
General Information for Students entering the Freshman and Sophomore Classes of the Medical Courses - - 13
General Information for Students entering the Junior and Senior Classes - - - - - - - - - - - 15
The Quarter System - - - - - - - - - - - 17
Graduate Courses in Medicine for Physicians and Advanced Students - - - - - - - - - 18
The Degrees of S.B., A.B., and Ph.B. - - - - - 18
The Work of the Medical Course for the Freshman and Sophomore Years - - - - - - - - - 19
Department of Anatomy - - - - - - - - - 21
Department of Physiology - - - - - - - - 25
Department of Chemistry, Pharmacy, and Toxicology - 27
Department of Therapeutics and Preventive Medicine - 29
Department of Pathology and Bacteriology - - - - 30
Department of Medicine - - - - - - - - - 32
Department of Surgery - - - - - - - - - 34
Department of Obstetrics and Gynecology - - - - 36
Department of the Diseases of the Chest, Throat, and Nose 37
Department of Ophthalmology and Otology - - - - 39
Department of Skin, Genito-Urinary, and Venereal Diseases 40
Fellowships, Hospital Internes, and Prizes - - - - 41
Fellowships and Scholarships at the University of Chicago 42
Medical Societies - - - - - - - - - - - 44

CHICAGO
**The University of Chicago Press**
1902

# CALENDAR OF THE UNIVERSITY OF CHICAGO

THE MEETINGS OF THE BOARD OF TRUSTEES ARE HELD ON THE SECOND TUESDAY OF EACH MONTH.

## 1902

| | | |
|---|---|---|
| Jan. 1 | Wednesday | New Year's Day; a holiday. |
| Jan. 2 | Thursday | First Term of Winter Quarter begins.<br>Matriculation and Registration of incoming students. |
| Jan. 5 | Sunday | The Congregation Sermon. |
| Feb. 11 | Tuesday | First Term of Winter Quarter ends. |
| Feb. 12 | Wednesday | Second Term of Winter Quarter begins.<br>Lincoln's Birthday; a holiday. |
| Feb. 22 | Saturday | Washington's Birthday; a holiday. |
| Mar. 1 | Friday | Last Day for receiving applications for fellowships. |
| Mar. 16 | Sunday | Convocation Sunday. |
| Mar. 17 | Monday | Spring Meeting of the *University Congregation.* |
| Mar. 18 | Tuesday | Spring Meeting of the *University Convocation.*<br>Annual Assignment of *Fellowships.* |
| Mar. 19 | Wednesday | Quarterly Examinations. |
| Mar. 20 | Thursday | |
| Mar. 21 | Friday | |
| Mar. 21 | Friday | Second Term of Winter Quarter ends. |
| Mar. 22–31 | | Quarterly Recess. |

| | | |
|---|---|---|
| April 1 | Tuesday | First Term of Spring Quarter begins.<br>Matriculation and Registration of incoming students. |
| April 6 | Sunday | The Congregation Sermon. |
| May 12 | Monday | First Term of Spring Quarter ends. |
| May 13 | Tuesday | Second Term of Spring Quarter begins. |
| May 30 | Friday | Memorial Day; a holiday. |
| June 3 | Tuesday | Registration of resident students for the Summer and Autumn Quarters. |
| June 4 | Wednesday | |
| June 5 | Thursday | |
| June 6 | Friday | |
| June 12 | Thursday | Quarterly Examinations. |
| June 13 | Friday | |
| June 14 | Saturday | |
| June 15 | Sunday | Convocation Sunday. |
| June 16 | Monday | Alumni Day.<br>Summer Meeting of the *University Congregation.* |
| June 17 | Tuesday | Summer Meeting of the *University Convocation.*<br>Second Term of Spring Quarter ends. |
| June 20 | Friday | Summer Examination for admission to the *Junior Colleges.* |
| June 21 | Saturday | |
| June 23 | Monday | |
| June 24 | Tuesday | |
| June 24 | Tuesday | Annual Meeting of the Board of Trustees. |

## BOARD OF TRUSTEES OF RUSH MEDICAL COLLEGE

DE LASKIE MILLER, *President*
FRANK B. TOBEY, *Vice President*
CHARLES L. HUTCHINSON, *Treasurer*
T. W. GOODSPEED, *Secretary*

WILLIAM R. HARPER
H. H. KOHLSAAT
JAMES H. ECKELS
ERNEST A. HAMILL
FREDERICK A. SMITH
ANDREW McLEISH
A. A. SPRAGUE
JESSE A. BALDWIN
J. J. GLESSNER

His Excellency RICHARD YATES, *Governor*
The Hon. WILLIAM A. NORTHCOTT, *Lieutenant-Governor*
————————————, *Speaker of the House of Representatives*
*ex officio*

## REPRESENTING THE UNIVERSITY

WILLIAM RAINEY HARPER, Ph.D., D.D., LL.D., President
ALBION W. SMALL, Ph.D., Director of the Affiliated Work of the University

## LOCATION OF RUSH MEDICAL COLLEGE

The college is situated on West Harrison street, between Hermitage avenue and Wood street, and can be reached by any of the trains of the Metropolitan Elevated Railway, the Marshfield avenue station of which is three blocks east of the college; by the Ogden avenue or Van Buren street Electric lines, which cross Wood street two blocks north of the college; or by the Harrison street Electric Car line which runs on West Harrison street.

The Telephone number of the college is West 113.

Address correspondence to

RUSH MEDICAL COLLEGE,
CHICAGO, ILLINOIS.

## LOCATION OF THE UNIVERSITY OF CHICAGO

The University is situated on the Midway Plaisance, between Ellis and Lexington Avenues, and can be reached by the Cottage Grove Avenue cable cars (from Wabash Avenue), by the Illinois Central Railroad to South Park Station, or by the Sixty-third Street electric cars from the Englewood railway stations.

A Baggage Express Company and the Western Union Telegraph Company have offices at the University.

The telephone number of the University is Oakland–426.

## CALENDAR OF RUSH MEDICAL COLLEGE

| | **1902** |
|---|---|
| Jan. 1, Wednesday | New Year's Day—a holiday. Winter Quarter begins |
| Feb. 12, Wednesday | Lincoln's Birthday—a holiday |
| Feb. 13, Thursday | Second Term, Winter Quarter begins |
| Feb. 22, Saturday | Washington's Birthday—a holiday |
| March 20, 21, and 22 Thursday, Friday, and Saturday | Quarterly Examinations |
| March 22, Saturday | Winter Quarter ends |
| March 22–31 | Quarterly Recess |
| April 1, Tuesday | Spring Quarter begins |
| May 12, Monday | Second Term, Spring Quarter begins |

| | **1902** |
|---|---|
| May 30, Friday | Decoration Day—a holiday |
| June 12, 13, and 14 Thursday, Friday, and Saturday | Quarterly Examinations |
| June 16, Monday | Special Clinics for the Alumni Association; Class-Day Exercises of the Graduating Class |
| June 17, Tuesday | Special Clinics; Annual Business Meeting of the Alumni Association |
| June 18, Wednesday | |
| 3:00 P.M. | Graduating Exercises |
| 7:00 P.M. | Annual Reception and Dinner of the Faculty and Alumni<br>Spring Quarter ends |
| June 19, Thursday | Summer Quarter begins |

## THE TRANSFER OF THE COURSES OF THE FRESHMAN AND SOPHOMORE YEARS TO THE UNIVERSITY OF CHICAGO

For several years the University of Chicago has offered courses suitable for students who were preparing to undertake medical work, and also in several of the subjects usually included in the first two years of a medical college curriculum. In 1899 provision was made for courses in Practical Anatomy, and under the arrangement of affiliation with Rush Medical College, the University offered last year courses corresponding to all of the work of the Freshman year of that institution, medical students being permitted to take their Freshman work at the University or at the College at their option. Beginning June 19, 1901, the University offers instruction in all of the subjects of the first two years of the medical curriculum; namely, in Anatomy, both gross and microscopic, Neurology, Embryology, Physiology, Physiological Chemistry, Inorganic, Organic, and Analytical Chemistry, Toxicology, Pathology, Bacteriology, and Pharmacology. The student who has completed this work will be prepared to enter directly upon the clinical work, that is to say, the work of the third and fourth years of the medical school. All of the work of the first two years of Rush Medical College will hereafter be offered at the University only. Students taking this work at the University will matriculate and register as students of Rush Medical College and likewise as students of the University. There will be no extra fee for such registration at the College, but the matriculation fee must be paid.

Until the beginning of the Summer Quarter, 1902, students will be admitted to the medical course who can comply with the requirements for admission to the Junior Colleges of the University of Chicago, corresponding to the requirements for admission to the Freshman year of an institution of equal rank. The necessity, however, for a broader and more thorough preparation for the study of medicine is strongly emphasized, and every student is advised to procure a liberal education, such as can be obtained only in a well equipped college or university, before taking up the study of medicine. This preparation, which should extend over at least two years of college work, should include a thorough course in Mathematics, in German and French, and in the sciences of Physics, Chemistry, and Biology. The requirements for admission to the medical course will be increased after June 19, 1902, and ultimately the Junior College certificate of the University, corresponding to the completion of the Sophomore year of a high grade college or university, will be demanded. (See p. 11.)

Attention is called to the fact that courses are offered in the departments of Arts, Literature, and Science of the University, in all the branches of a liberal education, and a medical student may take work in these branches by attendance upon additional quarters, or to a limited extent by extra work during his attendance upon the medical course. Students desiring to take work of this character should consult with the Dean of the Medical Course. Students who have completed not less than eighteen Majors of University work, corresponding to the Freshman and Sophomore years of a high grade university or college, and who have acquired a good knowledge of Physics, Chemistry, and Biology, and a reading knowledge of French and German, will be allowed to elect their work in the medical branches, subject to the restrictions imposed and to the approval of the Dean. (See p. 20, ¶ 2.) Students of this class who have not completed the work for the Bachelor's degree may apply their credits in medical courses as Senior College electives for a Bachelor's degree. (See p. 18.) Not only is the medical work elective for students who are thus prepared, but the courses are so arranged that the attention of the worker may be concentrated upon single or allied subjects. For example, anticipation of the chemistry of the medical course will permit a student to devote more time to any of the more strictly medical sciences. Students of this class who have received a college degree (A.B., Ph.B., or S.B.) are permitted to exceed the usual registration of three Majors of work per quarter without the payment of extra tuition fee, and it is hoped that this will encourage such students to avail themselves of the opportunities offered for advanced work and original research.

The teaching of the fundamental medical branches in an institution of general learning is believed to constitute a distinct step in advance in medical education. The student pursuing these branches in the atmosphere of an institution devoted to purely scientific work under the instruction of men whose time is wholly devoted to teaching and investigation along their respective lines, cannot but arrive at a broader and more thorough conception of these sciences. Such a training will not only afford a better preparation for the clinical courses of the medical college and for the practice of medicine and surgery, but will enable its possessor to follow easily in paths along which medical advances promise to be made, and to apply these new discoveries in his daily work.

## LABORATORIES, EQUIPMENT, AND LIBRARIES

The University affords for the work of the Medical Course the following buildings:

### THE HULL BIOLOGICAL LABORATORIES

On December 14, 1895, Miss Helen Culver, of the city of Chicago, presented the University of Chicago with property valued at $1,000,000 — the whole gift, according to the terms of the letter of endowment, to be devoted to the increase and spread of knowledge within the field of the biological sciences. From this fund there have been erected, at the north end of the University grounds, four buildings to serve as laboratories for the Anatomical, Botanical, Physiological, and Zoölogical Sciences. Medical instruction is given in the Anatomical, Physiological, and Zoölogical Laboratories.

#### THE ANATOMICAL LABORATORY

The Anatomical Laboratory is 120 by 50 feet, and four stories high, exclusive of the basement and attic, and was constructed to provide for Anatomy, both gross and microscopic, including Neurology.

In the basement are special rooms for keeping frogs and similar animals at low temperatures; a bone room, a cold storage room for anatomical material, and a crematory.

The first floor is occupied by three large laboratories for microscopic work (Histology, Microscopic Anatomy, Neurology, and Pathology), and a large photographic room containing a stone pier and connected with a dark room. On the second floor there is an additional room for general class work in microscopic branches, a lecture room, and an Osteological Laboratory. Here, too, are located the laboratories of the staff in Neurology and a laboratory for advanced work and original research in Neurology. On the third and fourth floors are situated the dissecting rooms for Human Anatomy, the private laboratories for instructors and research workers, and two laboratories for the making of special preparations. In the attic there is a well-lighted operating room adjoining a large animal room; in addition several storerooms are situated here. The laboratories are well equipped for work in gross and microscopic Anatomy and in Pathology, and especial facilities are afforded for advanced work and original research.

#### THE PHYSIOLOGICAL LABORATORY

The Physiological Laboratory is 102 by 52 feet and four stories high, exclusive of the basement and attic. The basement contains a cold-storage room, aquarium room, an animal room, workshop, and storeroom. It is connected with the greenhouse of the laboratory. The first floor contains a general laboratory for beginners, a galvanometer room, a lecture room, and photographic room. The second floor contains a large lecture room with preparation room and storeroom, the departmental library, an optical room, two dark rooms, and a private laboratory. The third floor contains two laboratories for advanced workers in Physiology, a laboratory for beginners in Physiological Chemistry and Pharmacology, a balance room, and several smaller rooms for work in Physiological Chemistry, and Pharmacology. The fourth floor contains two rooms with cages for animals and an operating room. In addition, two laboratories for work in Physiological Chemistry and Pharmacology, a combustion room, and a room for work in gas analysis. The laboratories are well equipped both for general instruction in Physiology, Physiological Chemistry, and Pharmacology and for advanced and research work in these sciences.

#### THE ZOÖLOGICAL LABORATORY

The Zoölogical Laboratory is 120 by 50 feet, and four stories high, exclusive of the basement.

On the first floor are located the library of the biological departments, rooms for a synoptical museum, a large laboratory for elementary Zoölogy and a laboratory for research work in Pathology. The second floor contains one large laboratory for beginners in research, and a number of smaller laboratories for more advanced work. The third floor contains two large laboratories, one for comparative anatomy and embryology, the other for cellular biology, and a number of rooms for research. The fourth floor is devoted to the laboratories for Bacteriology, which are supplied with sterilizers, incubators, special microscopes, and other bacteriological apparatus, and are furnished with tables for microscopical work and for the usual laboratory manipulations. The basement contains one large room with glass-covered extension on the south side, designed for an aquarium, two rooms for use as aviaries, vivaria, etc., one room for palæontological material, and one for taxidermy and museum purposes.

The best optical and other apparatus demanded by zoölogical work are provided. There are series of models and charts illustrating embryological and morphological subjects, and ample facilities for keeping land and aquatic animals under favorable conditions for study.

## THE KENT CHEMICAL LABORATORY

The Chemical Laboratory provided by the generosity of Mr. Sidney A. Kent is 176 by 64 feet and three stories high exclusive of the basement. An amphitheater seating 750 people forms an annex to the building. Lectures are given in rooms on the first floor. The laboratory instruction in General Inorganic and Elementary Organic Chemistry is given on the third floor in three large laboratories accommodating 300 students. Each student is given a separate desk supplied with gas and water and is furnished with all necessary chemicals and apparatus. The laboratories for analytical chemistry are on the second and third floors. The advanced work in chemistry is done in general and private laboratories on the first and second floors. There are a number of small rooms used as balance, combustion, gas-analysis, photographic rooms, etc. The Chemical Library contains full sets of the most important journals, books of reference, and other works relating to Chemistry.

## THE LIBRARIES

The General Library is located on the northeast corner of the University quadrangles. The building now occupied is temporary and is to be used until such time as a permanent library building may be erected.

The General Library is for the use of students in all departments of the University. Students who have matriculated may take at one time three volumes from the General Library. These may be kept two weeks, and at the end of that time, if desired, may be renewed for two weeks.

Former students may continue the use of the library by the payment of the library fee of $2.50 per quarter.

The total number of books at present in the library is approximately 230,000.

Number of volumes in departmental libraries of departments concerned in medical instruction, January 1, 1900: Biology, including Anatomy, Neurology, Physiology, Bacteriology, Pathology, Zoölogy, Physiological Chemistry, and Pharmacology, 8,353; Chemistry 1,813, Physics 1,375.

All the branch and departmental libraries are catalogued and classified. Most of the collections in the General Library are now permanently arranged.

Liberal appropriations have been made this year to each of the departments giving courses in medicine for the purchase of additions to the libraries dealing especially with the subjects concerned. A further annual appropriation has been granted to each department which will permit of the supply of all the important current scientific medical journals and reviews and the purchase of monographs as they appear from month to month.

The students of the University are permitted to use the books and periodicals in the Newberry Library and in the Crerar Library, both of which contain a large number of medical and general scientific works.

The Public Library of Chicago is also available to medical students for general reading.

## BUILDINGS, EQUIPMENT, AND HOSPITAL FACILITIES AT RUSH MEDICAL COLLEGE

*The Clinical Building*, situated upon the corner of West Harrison and Wood streets, is 60 by 80 feet, and four stories in height. The first floor is occupied by the college library and reading-room. On the second floor are situated the offices of the college, the lower amphitheater, seating 400, and clinical waiting rooms. The third floor contains the upper amphitheater, seating 530 persons, a large surgical examining and dressing room, five clinical examining rooms, and a waiting-room for patients. The fourth floor is occupied in part by the upper amphitheater, and in part by the laboratory for surgical and orthopedic appliances and bandaging.

*Senn Hall*, now about completed, through the munificence of Professor Senn and other members of the Faculty, adjoins the Clinical Building on the east. It covers a ground space of 40 by 90 feet, is seven stories in height (including the basement), and of absolutely fire-proof construction. The basement and first three floors, affording over 10,000 square feet of floor space, will be devoted to the dispensary and the clinical teaching connected therewith. The fourth and fifth floors will be occupied by clinical laboratories and recitation rooms. The remaining two stories will contain two surgical and medical amphitheaters, seating about 150 each, with necessary waiting and preparation rooms.

*The Laboratory Building*, on the south side of Harrison street, is 100 by 45 feet in area, and six stories in height (including the basement.) The basement is occupied by storage rooms for apparatus, an animal room for the laboratory of Pathology and Bacteriology, and a cloak-room for students. Adjoining the basement is a separate building for the preparation and storage of cadavers, by the cold-storage process, with a capacity for about 200 bodies. The first and second stories are devoted to the Department of Pathology and Bacteriology, which is fully equipped with the necessary microscopes and other apparatus for advanced work in these branches. The third floor is occupied by the Department of Chemistry and Toxicology, and is supplied with all of the necessary apparatus and materials for advanced work in these branches in their relation to practical medicine. The fourth floor contains four recitation rooms and a laboratory for Pharmacy and Therapeutics, and for Physiology. The fifth floor is devoted to advanced work in practical gross Anatomy, and to Operative Surgery.

*The Presbyterian Hospital*, with accommodations for 250 patients, adjoins the college and is connected with it so that patients can be transferred directly from the wards to the clinical amphitheaters. In this hospital over 2,000 patients are treated annually, and it thus affords a large amount of valuable material for the clinics.

*In the Cook County Hospital*, which is situated opposite the college, are treated about 20,000 patients annually. In this institution are given about forty clinics a week, including all varieties of medical and surgical cases. The facilities for the study of pathology which are afforded at the Cook County Hospital are unexcelled in this country. Between 300 and 400 post-mortems are made annually in the necropsy theater by Professor Hektoen and the Associate Pathologist of the Hospital.

*The Library and Reading Room*, which has heretofore occupied the fourth floor in the Chicago College of Dental Surgery, will be transferred to the first floor of the clinical building, which will add to the convenience of students. The library contains about 10,000 volumes and files of all the leading medical journals in English, German, and French.

Through the courtesy of the medical attendants and managing officers of several hospitals and dispensaries within convenient distance of the College, *extra-mural* clinical courses are offered to the students of Rush, in small groups, and the clinical material available for teaching has thus been greatly augmented. Such courses are offered at the West Side Hebrew Dispensary, treating about 30,000 cases annually; at the St. Luke's Hospital, with about 2000 cases annually; at the Illinois Charitable Eye and Ear Infirmary, treating about 1,000 cases, and at the Chicago Isolation Hospital, where about 250 cases of smallpox were received during the past year.

---

## REQUIREMENTS FOR ADMISSION

### GENERAL REGULATIONS

Students are admitted to the Medical Course either as 1) *Medical Students*, or 2) as *Undergraduate Students* (candidates for a bachelor's degree, S.B., A.B., or Ph.B.).

*Graduates* of the University of Chicago or of other universities or colleges in good standing are admitted to the Medical Course as Medical Students; they are allowed all the privileges of the members of the Graduate Schools of the University.

In addition to students in regular standing, provision is made for the admission to the University of undergraduate students not seeking degrees. Such students are known as *Unclassified Students.*

1. *Admission as a Medical Student.*
    *a*) Each student must present to the Faculty certificates of good moral character, signed by at least two physicians of good standing in the state in which the applicant last resided.
    *b*) He must be able to comply with the requirements for admission to the Junior Colleges of the University of Chicago. These requirements are stated below on pp. 9–11. They correspond to the requirements for admission to the Freshman class of the better universities or colleges.
    *c*) He must matriculate and register as a student of Rush Medical College as well as of the University at the beginning of his course. Such matriculation and registration is accomplished at the University.

2. *Admission as an Undergraduate Student* (as a candidate for a bachelor's degree).
    *a*) The first two years' work in Medicine may be taken as the third and fourth years of the bachelor of science course upon fulfillment of

certain requirements for the degree (see p. 18) of this BULLETIN.

A very considerable part of the first two years' work in Medicine may also be taken during the third and fourth years of the bachelor of arts or the bachelor of philosophy courses (see p. 18) of this BULLETIN.

Students who wish to enter college and prepare to take the Medical work as part of their baccalaureate course may enter at the beginning of the Junior College Course (first college year) or at any farther stage of advancement).

Students who wish to take the Medical course as part of their baccalaureate course and desire to be admitted at once to the Medical course must secure admission to the Senior Colleges (third and fourth academic years) of the University* (see p. 18).

*b*) Each student must present to the Faculty certificates of good moral character signed by at least two physicians of good standing in the state in which the applicant last resided.

*c*) In order to comply with the rules of the Medical Examining Boards of several states a student will matriculate and register with the Dean of Rush Medical College (at the University) at the beginning of the first or second year's work in Medicine. He will continue to register, at the same time, with the Dean of the Senior Colleges until he receives a bachelor's degree.

3. *Admission as a Graduate Student.*

*a*) Admission to the Graduate Schools of the University is granted (1) to those who have been graduated from the colleges of the University of Chicago with the degree A.B., Ph.B., or S.B.; (2) to those holding baccalaureate degrees from other institutions of good standing.

*b*) Applications for admission in the case of students not graduates of the University should be accompanied by testimonials as to character and scholarship. Such testimonials should take the form of diplomas, written or printed theses, or furnish satisfactory evidence in some other form of the student's fitness for admission.

*c*) A Graduate Student taking the Medical Course will register with the Dean of the Graduate Schools after consultation with the Dean of Medical Students as to the Medical Courses he should elect. He must fulfill the conditions prescribed above in 1. *a*) and *c*).

*d*) For the conditions governing advanced standing in the Medical Course, see p. 11.

4. *Unclassified Students.*

*a*) Candidates for admission to the University as *Unclassified Students* (1) must be at least 21 years of age; (2) must show good reason for not entering upon a regular course; (3) *must take the entrance examinations of the departments in which they wish to work;* (4) must satisfy the Dean and the particular instructors under whom they desire to study that they are prepared to carry the courses elected.

Unclassified students conform to all regulations of the University, and, having been admitted, their continuance depends on the maintenance of a satisfactory standing.

**Note.—Students entering the University for the first time should make it a point to complete all arrangements for entrance, either by correspondence or in person, *at least two days before the opening of the quarter.***

## REQUIREMENTS FOR ADMISSION TO THE MEDICAL COLLEGE

### I. IN GENERAL

Preparation for admission to the Medical College is expected to cover a period of four years in a secondary school (high school or academy) of high grade. The University does not, however, accept a high school or academy diploma as satisfying these requirements, but exacts specific credits for each subject. Such admission credits are reckoned in units.

A *unit* corresponds to a course of study comprising not less than 150 hours of prepared work. Two hours of laboratory work are regarded as the equivalent of one hour of prepared work. Fifteen units are required for admission to the Junior College. Some of them are definitely prescribed, viz.: **History** 1 unit, **Latin** 2 units, **Mathematics** 2½ units, **Physics** 1 unit, **Chemistry**† 1 unit, and **English** 2 units. The others are elective.

---

* A student desiring to enter the course as a candidate for the S.B., A.B., or Ph.B. degrees is requested to consult pp. 18, 19 of this *Circular* and write for the *Circular of Information* of the Colleges, in which a complete statement is given of the requirements for the college degrees and of the conditions for admission to advanced standing in the colleges. He is also invited to enter into correspondence upon the subject with The Dean in the Colleges.

† Students may enter the Medical Course without entrance Chemistry, one unit, but such students will be conditioned and required to take two courses in Chemistry (1 and 2) in addition to the prescribed work of the Medical Course. The two courses may be taken in the Summer Quarter (1A and 2A) previous to the beginning of the Medical Course, or as extra work during the Medical Course, or in the Summer Quarter between the first and second years of Medicine.

*When a student presents credit for these units from an affiliated, or coöperating school (see list below), such credit is allowed without further examination. If a credit be presented for work done at a school other than an affiliated or coöperating school, he is required to pass an examination conducted by the University except for work done in accredited schools of certain State Universities* (see below).

*Times and Places of Examinations.* Examinations for admission are held four times a year at the University. (For dates see calendar, p. 3.) They are also given at the request of students or teachers at any of the regular dates, in cities outside of Chicago in which satisfactory arrangements can be made. Applications for such examinations should be made to the Dean of Affiliations at least 30 days in advance. Examinations for admission to other than the regular dates may be given only at the University, and that by special permission of the Dean, and upon the payment of a fee of not less than $10.00 nor more than $15.00 (the amount being dependent on the number of examinations taken).

Candidates for admission are not required to take all the examinations ot one time.

Full information in reference to the requirements for admission, with explicit description of the courses advised, the grouping recommended, with instruction as to the manner of preparing and presenting credits, is contained in the Circular of Information in reference to requirements for admission. Students desiring to apply for admission should write for this circular and for the blank, "Recommendation for Admission." Credits are accepted, without examination, from the affiliated and coöperating schools named in the following list :

1. *Students from Morgan Park Academy and the Affiliated and Coöperating Schools.* Students from these schools are admitted to the University upon presentation of a *subject certificate* covering each of the subjects stated above as required for admission. The affiliated and coöperating schools are named below :
2. *Affiliated Schools.* The following is the list of affiliated schools doing preparatory work : Bradley Polytechnic Institute, Peoria, Ill.; Culver Military Academy, Culver, Ind.; Frances Shimer Academy, Mt. Carroll, Ill.; South Side Academy, Harvard School, Kenwood Institute, Chicago Manual Training School, Princeton-Yale School, Dearborn Seminary, the University School for Girls, all of Chicago; Rugby School, Kenilworth, Ill.; Wayland Academy, Beaver Dam, Wis.; Elgin Academy, Elgin, Ill.; Burlington Institute, Burlington, Iowa ; Brownell Hall, Omaha, Neb.
3. *Coöperating Schools.* The following is the list of Coöperating secondary schools :

The High Schools of Chicago, viz.: Austin, Calumet, Englewood, English High and Manual Training, Hyde Park, Jefferson, John Marshall, Joseph Medill, Lake, Lake View, North Division, Northwest Division, South Chicago, South Division, West Division ; the University School for Boys.

Other High Schools in Illinois : Aurora (East Side), Aurora (West Side), Bloomington, Blue Island, Clyde, Elgin, Evanston Township, Freeport, Harvey, Hinsdale, Joliet, La Salle, Lyons Township, Moline, Oak Park, Ottawa Township, Peoria, Princeton, Quincy, Riverside, Rockford, Rock Island, Springfield, and Waukegan.

In California : San Francisco Girls' and Lowell High Schools.

In Colorado : Colorado Springs, Denver, District No. 1, District No. 2, and North Side, and Pueblo (Central and Centennial) High Schools.

In Georgia : Atlanta (Girls') High School.

In Indiana : Fort Wayne High School, Indianapolis High School, Indianapolis Industrial Training School, Classical School for Girls (Indianapolis), La Porte, Terre Haute, Elkhart, Logansport, South Bend, and Richmond High Schools.

In Iowa : Davenport, Des Moines (West Side), Dubuque, Keokuk, Sioux City, Clinton, Cedar Rapids, Ottumwa, Davenport, and Council Bluffs High Schools.

In Kansas : Leavenworth, Fort Scott, and Topeka High Schools.

In Kentucky : Boys' High School and Girls' High School, Louisville.

In Michigan : Michigan Military Academy (Orchard Lake), Battle Creek, Grand Rapids (Central), St. Joseph, and Benton Harbor High Schools.

In Minnesota : Duluth (Central), Minneapolis Central and East Side High Schools, and St. Mary's Hall and Shattuck School, Faribault.

In Missouri : Hosmer Hall (St. Louis), St. Louis, Kansas City, and St. Joseph High Schools, and Blees Military Academy (Macon).

In Montana : Helena High School.

In Nebraska : Omaha High School.

In Ohio: Cleveland (Central), Columbus (Central), Toledo (Central), Dayton (Steele High School), and Youngstown High Schools.

In Pennsylvania: Pittsburgh Central High School and Westtown Boarding School.

In Wisconsin: Milwaukee (S., E., and W. Side) and Racine High Schools, Milwaukee Downer College, Milwaukee, and Hillside Home School.

For the year beginning June 19, 1901, credits from the following schools, in addition to the foregoing list, will be accepted for admission to the **Medical Course** of the University: Four-year High Schools and Academies on the accredited lists of the following universities: The University of Wisconsin, the University of Michigan, the University of Minnesota, the University of Iowa, the University of Illinois, the University of Nebraska, the University of Kansas, the University of Indiana, and the University of Ohio.

I. Admission requirements to the medical work at the University of Chicago and Rush Medical College will consist, after June 19, 1902, of the admission requirements to the Junior College, and, in addition thereto, one year of college work, or in lieu thereof six majors of college work chosen from the twenty-one Majors especially recommended for students preparing to study medicine on p. 19 of this BULLETIN; from June 19, 1903, to June 19, 1904, twelve Majors of college work, of which six must have been chosen from the twenty-one Majors recommended, or in lieu thereof a total of nine Majors chosen from the twenty-one Majors recommended; after June 19, 1904, eighteen Majors of college work of which nine have been chosen from the twenty-one Majors recommended, or in lieu thereof a total of thirteen Majors chosen from the twenty-one Majors, specially recommended.

II. Students who have admission credits to the Junior College of the University of Chicago, may be admitted to the Medical Courses during the year beginning June 19, 1902, deficient in not more than six Majors of college work. In this event, the student will be expected to remove these conditions before he is allowed to register for any of the courses included in the second nine majors of work of the Medical Courses as outlined on pp. 20, 21 of this BULLETIN. In choosing courses to remove such conditions, he will make his selection entirely from the twenty-one Majors of work especially recommended to students preparing for medicine on p. 19 of this BULLETIN.

III. A student entering with deficiencies in admission requirements shall be permitted to register for three Majors of work only during his first quarter, but later, provided his work during that first quarter has been satisfactory, he may be permitted to register for three and one-half or four Majors per quarter.

See p. 19 of this BULLETIN for the two years' course of college studies recommended for students preparing to study medicine.

Attention is called to the fact that the extra credits which will be required in addition to high-school work (six Majors in 1902–3; nine Majors in 1903–4; thirteen Majors in 1904–5 and thereafter) may be secured in the Colleges of Arts, Literature, and Science of the University of Chicago by attendance upon extra quarters before entering the medical course or, in small part, by taking extra work in these colleges during the student's attendance upon the medical course. A student may qualify for admission to the medical course simply by prolonging his attendance or taking extra work in the University. Credit for such work in any other college or university of equal standing will be accepted.

## ADMISSION TO ADVANCED STANDING

Applicants for admission to advanced standing in the courses for the degrees of A.B., Ph.B., or B.S., University of Chicago, should apply to the University for the Bulletin of Information of the Medical Course.

### ADMISSION TO ADVANCED STANDING IN THE MEDICAL COURSE

The following students are admitted to advanced standing in the medical course:

*First.* Graduates of recognized Colleges of Arts or Science which require a regular attendance of four years as essential to graduation may be given credit for each major of work (or a full equivalent therefor) which corresponds to any of the work in medical courses. *A Major corresponds to sixty hours of didactic or recitation work, or one hundred and twenty hours of laboratory work*, or of lectures and laboratory work in the given proportion. Students of this class applying for advanced standing should state fully the date of beginning and ending of each session attended at a university or college, together with the name of the college or colleges attended, and a statement of all work which has been taken in any of the following branches: German, French, Chemistry, Physics, and any of the Biological branches.

*Second.* Graduates of reputable and regularly established colleges of dentistry, pharmacy, or veterinary medicine which require before graduation attendance upon a course extending over three or more years, and who can comply with the requirements for admission, may be given credit for any of the work of the Freshman and Sophomore years of the medical curriculum which may have been successfully completed in the institutions mentioned, on condition that they pass examination in those branches at the University.

*Third.* Students from other medical schools whose standards are fully equivalent to those of this institution may receive credit for time spent — estimated in months — and for any work successfully completed in such institutions which is equivalent to corresponding work in the medical course in the judgment of the head of that department. Such a student should give an explicit statement in regard to his preliminary education before beginning the study of medicine, the date of beginning and ending of each session attended in a medical college, together with name of the college and statement of the branches which he has successfully completed; the latter statement should set forth, if possible, the exact number of hours given to each branch.

*Fourth.* To graduates of other reputable institutions, fully recognized by the Illinois State Board of Health, and whose instruction is deemed by the faculty equal to that given at this institution, full credit will be given for the time spent in actual attendance (estimated in months) at such institution, and for such work, successfully completed therein, as may be the equivalent of courses offered at this institution in the Freshman, Sophomore, and Junior years. Every such student must remain in residence at Rush Medical College during at least three quarters, and successfully complete at least eleven majors of work, in order to be entitled to receive the degree of Doctor of Medicine. The faculty reserves the right to submit *any* student, applying for advanced standing, to examination in the work completed elsewhere, and for which he asks credit.

*A student may matriculate at any time in person or by correspondence.*

## REQUIREMENTS FOR GRADUATION

The following are the requirements for the degree of Doctor of Medicine:

The candidate must not be less than twenty-one years of age, and must have studied medicine for four years. He must have paid all dues, must have complied with all the requirements, and must have maintained unexceptional conduct while at the College.

He must have attended twelve full quarters or an equivalent amount of time in a recognized medical school, of which at least the last three quarters must have been in this institution, and forty-five months must have elapsed between the beginning of his first course of medical lectures and the date of his graduation.

He must have completed, successfully, all of the work required, as follows:

Eighteen Majors of work in the Freshman and Sophomore years, comprising a minimum of 5 Majors in Anatomy, including gross, and microscopic Anatomy, Human Dissection (one lateral half of the human body), Neurology, and Embryology; 3½ Majors in Physiology, including Physiological Chemistry; 2 Majors in Chemistry; 1 Major in Pharmacology; 2½ Majors in Pathology, including Bacteriology; 4 Majors additional work in one or more of these departments of his choice.

Twenty-two Majors of work in the Junior and Senior years, comprising a minimum of 1½ Majors in Therapeutics and Preventive Medicine; 1 Major in Pathology; 4 Majors in Medicine; 5 Majors in Surgery; 3 Majors in Obstetrics and Gynecology; 1½ Majors in Diseases of the Chest, Throat, and Nose; ½ Major in Diseases of the Eye and Ear; ½ Major in Skin and Venereal Diseases; 5 additional Majors in any branch or branches of his choice.

He must have passed, successfully, a final examination, both written and practical, in Anatomy, Physiology, Chemistry, Pathology and Bacteriology, Pharmacology, Medicine, Surgery, Obstetrics, and in one of the following branches of his choice: Gynecology, Diseases of the Chest, Throat, and Nose, Ophthalmology and Otology, and in Diseases of the Skin and Venereal Diseases.

# GENERAL INFORMATION FOR STUDENTS ENTERING THE FRESHMAN AND SOPHOMORE CLASSES OF THE MEDICAL COURSES

## ROUTINE OF ENTRANCE

### I. CREDENTIALS

Applications should be addressed to The University of Chicago, Chicago, Ill. When presenting himself for admission to the University, the student should bring his *card of admission credits* if he is entering a Junior College at its beginning; his *letter of dismissal* and an official statement concerning his previous work if he is entering with advanced standing from another institution; and his *diploma* if he is applying for admission to a Graduate School.

These documents should be presented at the office of the Dean of Medical Students, in the Anatomy Building, at the University. Detailed directions will be furnished in the Dean's office as to the mode of registering for courses of instruction desired.

### II. MATRICULATION AND REGISTRATION.

1. Time of Registration.
   - *a*) Students entering the University *for the first time*, or resuming work after absence for a quarter, will register for the Autumn and Winter Quarters on or before the last day of September or the first and second days of October; and for the Spring and Summer Quarters on or before the last day of March or on the first day of April.
2. Order of Procedure for New Students.

   New students will

   - *a*) In case they come from a secondary school, present credentials to the Dean of Medical Students and secure a card of admission credits. Those entering from colleges submit credentials to the Dean in charge of advanced standing. This may be done by correspondence. New students are urged to send their credentials to the Dean at least two days before they come to register.
   - *b*) *Matriculate* in the office of the Dean of Medical Students, where a card of instructions will be given him. Matriculation is granted on presentation of the card of admission-credits which entitle the student to enter the University. As evidence of admission the student is given a *Matriculation card.*
   - *c*) *Register*, in the same office, the courses of study desired for the ensuing quarter. For this purpose the student will be given a *Registration card* for the quarter and, after consultation with the Dean, the courses desired will be entered on this card.
   - *d*) *Pay the University fees* for the ensuing quarter. In order to do this, the student will present the *Matriculation card* and the proper *Registration card* at the office of the Registrar, Cobb Hall, Room A 1. On payment of fees the Registrar will stamp the Matriculation card and return it to the student, together with a receipt for tuition fees and for laboratory fees (if any).

   Details as to fees will be found below.

   The names of the students will be sent to instructors as entitled to attend classes *only after the fees have been paid*, as above specified.

## FEES FOR MATRICULATION, TUITION, ETC.

1. *Matriculation Fee.*
   - *a*) The Matriculation Fee is $5.00 and is required of every student upon entrance to the University. It is payable but once.
   - *b*) A Medical student will also matriculate as a student of Rush Medical College. The fee is $5.00 and the matriculation is good for the complete medical course including the clinical years.
   - *c*) An undergraduate student, candidate for a bachelor's degree, who wishes to take the Medical Course as a part of the work for the bachelor's degree will also matriculate as a student of Rush Medical College at the beginning of the first or the second year of his work in the Medical course. The fee is $5.00 and the matriculation is good for the complete medical course including the clinical years.

Matriculation for Rush Medical College can be accomplished at the University through the Dean of Medical Students.

2. *Tuition Fee.*
   - *a*) The Tuition fee is $40.00 per quarter (including the library and incidental fee, $5.00) for regular work (3 Majors or their equivalent); there is no reduction to those taking only 2 Majors.
   - *b*) A reduction is made in case of students taking

only 1 Major (or equivalent), one-half the full tuition fee being charged.

*c*) Undergraduates (including Unclassified students) taking more than 3 Majors, will be charged (in addition to the regular tuition fee) at the rate of $15.00 for each additional Major.

*d*) Physicians and Postgraduates taking only one course (one Major) are charged $20.00 per quarter; for more than one course the full tuition fee of $40.00 per quarter is charged.

*e*) *All tuition and laboratory fees are due and payable on or* BEFORE *the* FIRST *day of* EACH QUARTER. *All fees are payable to the Registrar, Cobb Lecture Hall, Room A1.*

Registration is not complete until all University bills are paid. Those who fail to meet this obligation within the first five days of the quarter will not be regarded as members of the University. After the fifth day, to secure membership in the University the consent of the Dean and the payment of a fee of $5.00 for late registration will be required.

3. *Laboratory Fees and Incidental Expenses.*

Students in Practical Gross Anatomy pay a fee of $5.00 for each course in dissection.

Students in Chemistry, Splanchnology, Physiological Chemistry, Pharmacology and Pathology pay a laboratory fee of $5.00 for a Major course and $2.50 for a Minor course. Students in Physiology and Bacteriology pay a laboratory fee of $3.00 for a Major course, and $1.50 for a Minor course. Students in Biology, in other courses than those already mentioned, pay $2.50 for a Major course, and $1.25 for a Minor course.

In addition to the regular laboratory fee a deposit of five dollars ($5.00) is required from each student to procure coupon tickets to cover loss and breakage in the laboratories. Unused portions will be redeemed.

All students taking courses in the Department of Physical Culture are required to provide themselves with gymnasium suits for use in the gymnasium. The cost of such a suit is about $4.00.

Each student who procures a skeleton from the Osteological Laboratory will deposit twelve dollars for the same, which sum will be refunded when the skeleton is returned uninjured; he may, however, retain the skeleton if he so desires, in exchange for the amount deposited.

4. *Combined Fee for Tuition and Laboratory Work for Medical Students.*

The total amount of laboratory fees for the required work of the medical course (see pp. 20, 21) is close to $35 a year, distributed, however, unequally in the three quarters. The total tuition fee for three quarters is one hundred and twenty dollars ($120). **Students taking the Medical course will be allowed to pay in lieu of the quarterly tuition fee and all laboratory fees a total fee of $52.50 per quarter. After June 19, 1902, $55.00 per quarter.** When this arrangement is once accepted by the student it becomes binding during the rest of his medical course. The fee will include one coupon ticket for $2.50 (*issued only once in three quarters*) to cover cost of material furnished in the laboratories.

A deposit of $5.00 is required from each student to procure coupon tickets to cover avoidable loss and breakage in the laboratories.

*Medical students who matriculated at* **Rush Medical College** *on or before April 1, 1901, will, in accordance with the terms in vogue at the date of such matriculation, be allowed to pay a total fee of $50.00 per quarter in lieu of the quarterly tuition fee and all laboratory fees.* When this arrangement is once accepted by the student it becomes binding during the rest of his medical course. The fee will include a coupon ticket for $2.50 (*issued only once in three quarters*) to cover cost of material furnished in the laboratories.

## ROOMS, BOARD, AND GENERAL EXPENSES

Eight dormitories have thus far been erected in the quadrangles. Two of these are reserved for the students of the Divinity School and four are for women. A University House is organized in each dormitory; each House has a Head, appointed by the president of the University, and a House Committee, elected by the members; also a House Counselor, selected from the Faculties of the University by the members of the House. The membership of the House is determined by election, and each House is self-governing under the general control of the University Council.

The cost of rooms in the dormitories is from $20.00 to $57.00 per quarter of twelve weeks. This includes heat, light, and care. The rooms in Snell Hall, and all but one on each floor of Foster, Kelly, Green, and Beecher Halls, are single, and intended for occupancy by one student each, unless special arrangement otherwise is made with the Head of the House. In North Hall the rooms are single and in suites of a study and two sleeping rooms. Diagrams of the halls, showing prices of the rooms, with full particulars, will be sent by the Registrar on application.

Rooms will not be rented for a shorter period than a quarter, except in the Summer Quarter. If a student desires to surrender a room at the end of the quarter, notice to that effect must be given the Registrar three weeks prior to that date. The rooms are furnished with study table, chairs, bookcase, bedstead and mattress, bureau-commode, mirror, chamberware, and carpet rug. Rooms cannot be subrented, nor can exchange or transfer of rooms be made except by permission of the Registrar. In case of vacancies, applicants will be assigned rooms in the order of application. Each hall for women has separate dining hall and parlors. The cost of table board in these halls is $42 a quarter.

All applications for rooms, or for information concerning rooms and board within or without the quadrangles, should be made to the Registrar.

Undergraduate students not living in University Houses are not permitted to room in any building in which a family does not reside.

The following table will furnish an estimate of the annual expenses for thirty-six weeks of a medical student in the University, residing within the quadrangles:

| | LOWEST | AVERAGE | LIBERAL |
|---|---|---|---|
| University bill, tuition[*] | $120 00 | $120 00 | $120 00 |
| University bill, laboratory fees[†] | 37 50 | 37 50 | 37 50 |
| Rent and care of room | 60 00 | 105 00 | 125 00 |
| Board | 90 00 | 126 00 | 225 00 |
| Laundry | 15 00 | 25 00 | 35 00 |
| Text-books and stationery | 10 00 | 20 00 | 50 00 |
| | $332 50 | $433 50 | $592 50 |

It is believed that students who find it necessary to reduce expenses below the lowest of these estimates can do so. Rooms outside the quadrangles, furnished, with heat, light, and care, may be obtained at from $1.00 a week upwards, the $1.00 rate being easily secured where two students room together. Many places offer room and board from $4.50 upwards. There are student clubs which secure board at cost, the rate during the past year ranging from $2.25 to $2.75 a week. A list of approved boarding places outside the quadrangles is kept on file at the room of the Y. M. C. A., Haskell Museum, and information regarding the same may there be obtained.

## GENERAL INFORMATION FOR STUDENTS ENTERING THE JUNIOR AND SENIOR CLASSES AT RUSH MEDICAL COLLEGE

*Attendance.*—In order to be properly credited with attendance on any given term or course, it is imperative that students be present at the opening of each quarter. *No student will be registered after the fifth day of any quarter.*

*Matriculation.*—Each student matriculates on entering the College for the first time, but not for subsequent quarters.

*Registration.*—Each student registers at the beginning of each quarter, or earlier if desired, by the payment of the tuition fee for the quarter, and filing a registration card.

*Division of Classes into Groups.*—In order to facilitate the arrangement of the classes for work in small groups, each class is subdivided into groups of twelve students each, each group being designated by a letter. Students will be assigned to groups in the order of registration.

A student, upon entering the College at the beginning of his first Quarter, will procure from the Registrar a blank application for admission, fill out the same carefully, and return it to the Registrar, with the matriculation fee, for which he will receive a receipt.

The student will then present himself to the Dean of students and exhibit to him the credentials for admission and for admission to advanced standing. (See Requirements for Admission to Advanced Standing, pp. 11, 12.)

The Dean will issue a card certifying admission to the proper class, and will advise respecting the courses of study to be taken.

### COLLEGE FEES

Matriculation fee, five dollars, payable but once.

Tuition for each quarter, fifty-two and one half dollars (after June 19, 1902, $55.00).

A discount of five dollars is made when the fee for three successive quarters is paid in advance.

No student can be assigned to any College work until his fees are paid.

Fees are not accepted after the conclusion of the first week of any quarter.

---

[*] Medical students attending the first quarter must pay the matriculation fees, $5.00 to the University and $5.00 to Rush Medical College.

[†] *This item is reduced to $30.00 for Rush Medical students, who matriculated on or before April 1, 1901.*

It is intended to increase gradually the tution fees, *but a student in continuous attendance (at least two quarters each year) may pursue his whole course by paying the fees in vogue at the time of matriculation.* The annual ticket for each of the various hospitals in the city is usually five dollars. Attendance is obligatory upon the county hospital only.

### DEPOSITS

A deposit of five dollars is required from each student to cover the cost of unnecessary damage in the College buildings, and of avoidable loss and breakage in the laboratories. Deductions will be made from this deposit to cover the cost of articles not returned, or of damage to college property. Each student will be charged for damage or loss for which he is individually responsible, and for his *pro rata* share of damage or loss, the responsibility for which cannot be individually located. The deposit must be made on entering the College.

Members of the graduating class may rent from the College the cap and gown worn at the commencement exercises. These articles are to be returned in good order.

### PHYSICIANS FEE

Graduates of this College are admitted to all lectures upon the payment of annual fee of five dollars. Graduates of other colleges, attending the full course, will pay the fees of undergraduate students.

Special laboratory courses may be taken on the payment of a fee of twenty dollars for each *Major* course.

Graduates of this or other colleges who are visiting the city for a brief time are cordially welcomed, but are requested to procure complimentary tickets at the office.

No one is authorized to make any modification of the terms regarding fees. On financial matters the Registrar, who represents the Comptroller at the College office, should be consulted.

The right is reserved to make changes in the fees, curriculum or in any other matter at any time.

### SCHEDULE OF LECTURE HOURS

Schedules are issued from the College office giving the time and place of each exercise.

### BOARD AND LODGING

Rooms may be obtained in the vicinity of the College at from $1.00 to $3.00 per week. Day board may be had at from $2.00 to $5.00 per week. Board and room together may be obtained at from $3.50 to $7.00 per week. A Bureau of Information is maintained at the College to which students may apply for directions as to desirable board and lodging.

*Books and Instruments.*—The average annual cost of the required books and instruments varies from $15.00 to $20.00.

The following table will furnish an estimate of the expenses of a student for each quarter:

| | LOWEST | AVERAGE | LIBERAL |
|---|---|---|---|
| Matriculation fee (paid only the first quarter) | $ 5 00 | $ 5 00 | $ 5 00 |
| Tuition for each quarter | 52 50 | 52 50 | 52 50 |
| Board and room | 42 00 | 60 00 | 84 00 |
| Laundry | 5 00 | 7 00 | 12 00 |
| Books and instruments | 5 00 | 7 00 | 12 00 |
| Incidental expenses | 15 00 | 25 00 | 35 00 |
| | $124 50 | $156 50 | $200 50 |

NOTE.—After July 1, 1904, another year will be added to the clinical and practical work of Rush Medical College, making the complete medical course, extend over five years.

### CREDENTIALS FOR WORK

In order to obtain a credit slip for work of any year, each student should leave his correct home address at the College office before June 1. His credit slip will be sent to him by mail, and will show the amount of work done during the preceding year, together with any and all conditions registered against the student.

### THE YOUNG MEN'S CHRISTIAN ASSOCIATION

A branch of the Young Men's Christian Association is in active operation at Rush Medical College, and the headquarters of the West Side Association are situated within a short distance of the College buildings. Membership in this Association, with the privileges of gymnasium, bath-rooms, lecture-courses, etc., may be obtained through the Rush Medical branch at reduced prices.

Further information in regard to the Association may be obtained by application to the Rush Medical College branch of the Association.

## THE QUARTER SYSTEM

The Academic year of Rush Medical College and of the University of Chicago is divided into four quarters. These are designated as the Summer, Autumn, Winter, and Spring Quarters, beginning, respectively, on or about June 19, and on the first of October, the first of January, and on the first of April, each continuing for twelve weeks. A recess of one week occurs between the end of each quarter and the beginning of the next following, excepting that there is no recess between the end of the Spring and the beginning of the Summer Quarter, and that there is a recess of one month at the close of the Summer Quarter.

### THE MEDICAL CURRICULUM AS RELATED TO THE QUARTER SYSTEM

The general course of instruction in Rush Medical College requires four years of study in residence, with a minimum of attendance upon three quarters of each year. These years are designated as the Freshman, Sophomore, Junior, and Senior years, respectively.

A student may begin his college work on the first day of any quarter [see, however, p. 20, § 3, No. 3)], and may continue in residence for as many successive quarters as he desires, and will receive credit for work accomplished. Attendance during all the four quarters of the year is optional, but will not secure a time-credit of more than one year in a medical school. At least forty-five months must elapse between the date of a first matriculation and the date of graduation. Under the restrictions imposed, this system does not conflict with the existing medical practice acts, nor with the rulings of the various State Boards of Medical Examiners.

### THE SUMMER QUARTER

Attention is directed to the special opportunities afforded for medical study in the Summer Quarter. The climate of Chicago is particularly well adapted to midsummer work, the clinical resources of the College and of the dispensary being then actually increased in extent and value. At this season, further, diseases may be studied which are rarely encountered during the other months of the year. Instruction in all departments is given in the Summer Quarter.

### REQUIRED, ELECTIVE, AND OPTIONAL COURSES

A certain number of courses, especially in the Freshman and Sophomore years of study, are required as essential to securing credit in making up the four years' curriculum which must precede graduation. All of the courses offered in the Junior and Senior years are elective, that is, the student will be required to select from the list of elective courses a number sufficient to insure him credit for about 12 Majors each year. The term Major is fully explained in another paragraph. By this system the student can select not only his line of study but also his teachers in such special lines; and can, further, so arrange his work that in successive years he can practically include all branches taught in the College. He will be required to present, however, a minimum amount of credit in each department. See Requirements for Graduation.

The quarter system with Elective Courses is especially well adapted to the medical curriculum, and possesses the advantage of allowing each student to select a portion of his studies, and so to adapt his course to his tastes, his abilities, and his needs. This election applies for the present, however, only to the Junior and Senior years.

Optional courses, in addition to those described above, are offered to students who desire to add to the regular work as outlined in the requirements for graduation. These optional courses are designed to promote a higher scholarship and to increase facilities for work in special departments.

### DEFINITION OF MAJOR AND MINOR

A Major course is defined as a didactic or recitation course, occupying five hours a week for one quarter (a total of 60 hours), or a laboratory, practical, or clinical course, occupying ten hours a week for one quarter (a total of 120 hours). A double Major occupies twice the number of hours per week for the quarter.

A Minor course is a didactic or recitation course, occupying five hours a week for one half a quarter, or six weeks; or a laboratory course, occupying ten hours per week for a similar period. The value of each course in the following departmental statements is stated as a *major* (Mj.), a *double major* (DMj.), a *minor* (M.), a *double minor* (DM.), or the decimal fraction of a *major* or *minor*.

## GRADUATE COURSES IN MEDICINE FOR PHYSICIANS AND ADVANCED STUDENTS.

Special opportunities are afforded to physicians and graduate students at Rush Medical College and at the University for advanced and research work in Physics, Chemistry, Zoölogy and Embryology, Anatomy, Neurology, Physiology, Physiological Chemistry, and Pharmacology, and in Pathology and Bacteriology in Medicine, Surgery, Obstetrics, Gynecology, and in the other clinical departments. Research work may be conducted independently, or under the direction of an instructor in the department to which it belongs.

Physicians are admitted on payment of the matriculation fee, and payment of fees in proportion to the amount of work taken (see p. 16). The applicant's fitness for any course which he desires to take, should be ascertained by consultation with the head of the respective department.

Courses especially adapted to students of this class are outlined in pp. 22–41 of this Bulletin. Correspondence is invited in reference to special work other than the courses offered. It will be sufficient to address letters in reference to such course to Rush Medical College.

Students desiring to engage in work leading to the degrees of Master of Science, Master of Arts, Master of Philosophy, or to the degree of Doctor of Philosophy, are requested to write for the Circular of Information of the Graduate Schools, the University of Chicago.

## THE DEGREES OF S.B., A.B., AND PH.B.

### (THE UNIVERSITY OF CHICAGO)

### I. MEDICAL WORK IN THE COURSES FOR THE BACHELOR'S DEGREES

The first two years' work in medicine consists almost entirely of courses in pure science, which are open as electives to all candidates for a bachelor's degree at the University, who have had the necessary preliminary work in science.

*Medical Work in the Course for Bachelor of Science.*—A student who has completed the work of the Junior College of Science (two years) at the University or the second year at a college of good standing, whose credits are accepted as a full equivalent of the corresponding courses at the University, may enter the Senior College (first year) at the University and take the first two years' work in medicine as the third and fourth year of his bachelor's course, and, provided he also takes the specified required courses (three Majors in History and Philosophy) of the Senior College of Science, either in an extra quarter or as extra work during three quarters, receive the degree of S.B. on the completion of the second year's work in Medicine.

For the completion of the required work for the degree of S.B. and of the first two years in medicine, a student will need, altogether, from four to four and a half years, after entering the Junior College (Freshman year), or two to two and a quarter years after entering the Senior College (Junior year), depending on the amount of work he carries per quarter.

*Science Work preparatory to the Study of Medicine for S.B. Candidates.*—Candidates for the S.B. degree who intend to study medicine are strongly advised to take in their first two years at college (Freshman and Sophomore years) a large amount of work in Physics, Chemistry, and Biology, as giving the best foundation for the study of medicine (see below recommended course of study for students preparing to study medicine.)

*Medical Work in the Course for the Bachelor of Arts or Philosophy.*—A student who has completed the work of the Junior College of Arts or Philosophy (two years) at the University of Chicago or the Sophomore year at a college of good standing, whose credits are accepted by the University as a full equivalent of the corresponding courses, may enter the Senior College (third year) at the University and take from one to one and a half years' work in medicine as part of his bachelor's course and, provided he also takes the required work of the Senior College of Arts or Literature (four courses), receive the degree of A.B. or Ph.B. on the completion of two years' work in college. The remainder of the medical work of the first two years may be taken after graduation and with all the privileges of graduate students.

For the completion of the required work for the degree of A.B. or Ph.B. and of the first two years, work in medicine a student will need from four and a half to five years after entering the first year of the Junior College, or two and a quarter to three years after entering the Senior College (Junior year) of the University of Chicago.

Candidates for the A.B. or Ph.B. degree who intend to study medicine are strongly advised to take in their first three years at college a large amount of work in Physics, Chemistry, and Biology as giving the best foundation for the study of medicine (see below, recommended course of study for students preparing to study medicine).

*For information in detail regarding the requirements for the bachelor's degrees at the University of Chicago see the Circular of Information for the Colleges.*

### II. COURSE OF COLLEGE STUDIES RECOMMENDED FOR STUDENTS PREPARING TO STUDY MEDICINE

1) The College studies which are recommended for students preparing to study medicine are as follows:* **English,** 3 Majors; **French or German,** 3 Majors (a reading knowledge in each language must be obtained from these courses and those offered for admission to College); **Mathematics,** 2 Majors; **History,** 2 Majors; **Philosophy,** 1 Major †; Physics, 3 Majors; Chemistry, 5 to 6 Majors: General Chemistry, Qualitative Analysis, Organic Chemistry; General Biology, 1 Major; Comparative Anatomy, 1 or 2 Majors.

These twenty-one (21) to twenty-four (24) Majors will require seven (7) to eight (8) quarters for completion. The History and Philosophy, or part of the Chemistry or Biology, may be taken during the time that the student is doing his first two years' work in medicine.

2) For students who wish to devote three years in college in preparing for medicine before entering on medical work proper, the following courses are recommended for the choice of additional electives: Greek, 3 Majors; Calculus, 1 Major; Elementary Botany, 1 Major, Course 1; General Morphology of Thallophytes, 1 Major, Course 7; Introductory Physiology, 1 Major, Course 1; Physical Chemistry, 1 Major, half-Major Courses 31 and 32 or Course 23; Quantitative Chemical Analysis, 1 Major, Course 9; Physiography, 1 Major.

## THE WORK OF THE MEDICAL COURSE FOR THE FRESHMAN AND SOPHOMORE YEARS

### 1. *Outline of the Course.*

The course for the first two years' work in Medicine consists mainly of instruction in the fundamental medical sciences: Chemistry, Human Anatomy, Microscopic Anatomy, Histology, Neurology, and Embryology, Physiology, Physiological Chemistry, Toxicology, Pharmacology, Pathology, and Bacteriology.

### 2. *Amount of Work.*

The amount of work required is eighteen Majors. A *Major* (Mj.) is the unit of work and consists of five hours per week in class room throughout one quarter (12 weeks) or the equivalent amount of laboratory work a week (a total of 60 hours class-room work or the equivalent amount of laboratory work). From two to three hours of laboratory are regarded as the equivalent of one hour of class-room work.

### 3. *The Curriculum.*

1) Except in the case of certain students with special preparation (see below, 2) all the work of the Medical Course is prescribed for those who wish to receive credit for the first two years' work in Medicine. It consists of the following courses: ‡

*a)* CHEMISTRY, 2½ Majors (1B, 2B, and 4 ¶).
Toxicology, ½ Major (Chemistry 19).§

*b)* HUMAN ANATOMY: 6½ Majors.
Histology, Minor (1A).
Osteology, Minor (3).
Introductory Anatomy, Minor (4).

Two of these three Minor courses must be taken.

Human Anatomy, including Dissecting, three Majors (4, 5, 6).
Splanchnology, ½ Major (2).
Embryology, 1 Major (Zoölogy 17).
Neurology, 1 Major (Neurology 3).

---

*The required courses for the S.B. degree are given in **bold-faced type**; the courses recommended to be chosen as electives are given in common type.

† **Latin** (3 Majors) is required if only two units of Latin have been offered for admission to college.

‡ Detailed statements concerning the courses are given below under the various departments of instruction. They should be consulted in every case *in regard to equivalent courses which may be substituted for those the numbers of which are given in the above table.*

§ When no credit has been received for High School Chemistry on admission, two additional Majors must be taken. See footnote.

¶ The numbers refer to the course numbers in the corresponding department.

- *c*) Physiology: 6 Majors.
  - Physiology, 3 to 3½ Majors (12, 13, 14).
  - Physiological Chemistry, 1½ Majors (20).
  - Pharmacology, 1 Major (21).
- *d*) Pathology: 3 Majors.
  - Bacteriology, 1½ Majors (1).
  - Pathology, 1½ Majors (3, 4).

2) An undergraduate or graduate student, who has completed substantially the course of college studies recommended as a preparation for Medicine (see p. 19), or who has taken the Freshman and Sophomore years of a university or college of good standing, and has acquired a good knowledge of physics, chemistry, and biology, and a reading knowledge of German and French, may elect his work in the medical course, in view of his special preparation for the medical branches. His selection is subject to the approval of the Dean of Medical Course, and of the head of each department in which he elects work. In choosing his work he should keep in mind that a minimum amount of work in the several branches is demanded in the course for the degree of Doctor of Medicine (see, for example, "Requirements for Graduation in Rush Medical College," p. 12 of this Bulletin).

(3 The curriculum of instruction has been arranged in such a way as to insure for the student beginning his medical studies with any single quarter of the year, a complete annual course during any three consecutive quarters, but students are advised to enter at the beginning of the Autumn Quarter, if possible.

Note.—When, however, a student has not taken Chemistry in his high school or academy course, he is advised to enter the University for the Summer Quarter (beginning in 1902 on June 19, and closing August 31) in order to make up this deficiency in Chemistry.

The following table shows the arrangement of the courses for the six quarters of work comprised in the first two years of Medicine and the recommended sequence of studies. No student, however, is obliged to follow the order given, or to take full work in any quarter. Credit will be given for every course satisfactorily completed.

In the Summer Quarter, 1902, the following courses for Medical students are announced:

At the University: Courses in Histology, Splanchnology, Human Osteology, Research Work, and in Advanced Anatomy of the Eye and Ear, Nose and Throat, Pelvic Viscera and Pelvic Floor, Histogenesis, Organogenesis, and Histological Technique; Physiology; in Introductory Physiology, the Physiology of Nerves, Muscles, of Circulation and Respiration, General and Theoretical Physiology, Research Work, Physiological Chemistry and of Pharmacology, Chemistry. All the medical courses offered during the other quarters:

Embryology, Course 17; Pathology, Course 3; Bacteriology, 2 majors.

At Rush Medical College: Courses in all the clinical departments.

### 4. *Arrangement of Courses for Six Quarters.*

#### FIRST NINE MAJORS OF WORK

*Chemistry*† (1 B §), Major; *Histology* ‡ (Anat. 1 A), Minor; *Osteology* ‡ (Anat. 3), Minor; *Introductory Anatomy* ‡ (0), Minor; *Human Anatomy* (4), Double Minor. The following other courses are given in this quarter, and are open to students with advanced standing and the necessary prerequisites: Bacteriology, Physiology, Analytical and Organic Chemistry, Toxicology, Human Anatomy, and advanced work in all of the departments.

#### Winter, 1902

*Chemistry* (2 B), Major; *Splanchnology* (Anat. 2), Half Major; *Human Anatomy* (5 and 6), One and a half Majors. Other courses given: Physiology, Analytical and Organic Chemistry, Physiological Chemistry, Pathology, and advanced work in all of the departments.

#### Spring 1902

*Chemistry* (4), Half Major; *Embryology* (Zoölogy 17), One Major; *Physiology* (12), One and a half Majors. Other courses given: Embryology, Analytical and Organic Chemistry, Pathology, and advanced work in all of the departments.

#### SECOND NINE MAJORS OF WORK

*Bacteriology* (Pathol. 1), One and a half Majors; *Physiology* (13), One Major; *Human Anatomy* (6), One Minor. Other courses given: Toxicology, Human Anatomy, Chemistry, and advanced work in all of the departments.

---

† When no credit has been received for High School Chemistry on admission, two additional Majors must be taken. See footnote p. 9.

§ The numbers refer to the course numbers in the departments named. The departmental announcements below should be consulted in regard to equivalent courses which may be substituted for those the numbers of which are given in the above table.

‡ Two of the three Minors are to be chosen.

WINTER, 1902

*Physiological Chemistry* (Physiol. 20), One and a half Majors; *Pathology* (3), One-half Major; *Physiology* (14), One Major. Other courses given: Neurology, Human Anatomy, Splanchnology, Chemistry, and advanced work in all of the departments.

Students entering from Rush Medical College (the Freshman class of 1901–2) will take *Neurology* (3), in place of Physiology.

SPRING, 1902

*Pathology* (4), One Major; *Pharmacology* (Physiol. 21), One Major; *Neurology* (3), One Major. Other courses given: Embryology, Physiology, Human Anatomy and Chemistry, and advanced work in all of the departments.

Students entering from Rush Medical College (the Freshman class of 1900–1) will take *Embryology* (Zoölogy 17) in place of Neurology.

---

## I. DEPARTMENT OF ANATOMY

### INCLUDING COURSES IN DEPARTMENTS XXIII, ANATOMY, XXII, ZOÖLOGY, XXV, AND NEUROLOGY, THE UNIVERSITY OF CHICAGO

### *XXIII. THE DEPARTMEMT OF ANATOMY*

#### OFFICERS OF INSTRUCTION

LEWELLYS F. BARKER, M.B., *Professor and Head of the Department of Anatomy*
ROBERT RUSSELL BENSLEY, M.B., *Assistant Professor of Anatomy*
ALBERT CHAUNCEY EYCLESHYMER, PH.D., *Instructor in Anatomy*
CHARLES A. PARKER, M.D., *Instructor in Anatomy*
THOMAS A. OLNEY, M.D., *Instructor in Anatomy*
PRESTON KYES, A.M., M.D., *Associate in Anatomy*
DEAN D. LEWIS, A.B., M.D., *Associate in Anatomy*
DANIEL GRAISBERRY REVELL, M.B., *Assistant in Anatomy*
BASIL H. HARVEY, M.B., *Assistant in Anatomy*
SHINKISHI HATAI, *Assistant in Anatomy* (Winter Quarter, 1902)
CHARLES INGBERT, A.B., *Assistant in Anatomy* (Winter Quarter, 1902)
WILLIAM LAURENCE TOWER, B.S., *Assistant in Anatomy* (Winter Quarter, 1902)

#### FELLOW

1901–1902

LOUIS NEILL TATE, A.B.

#### INTRODUCTORY

The general outline of the work provided for in courses is as follows: During the First Term of the Autumn Quarter, Introductory Anatomy, Osteology and Histology are studied; in the Second Term of the same quarter Histology is continued, and Systematic Anatomy, including dissection, is begun; in the Winter Quarter Splanchnology is taken up, and Systematic Anatomy, including dissection, is continued. In the Spring Quarter Neurology and Embryology are studied. The teaching is chiefly by means of laboratory work under direction; but this may be supplemented by demonstrations, lectures, and recitations. During the Summer Quarter courses are given in Histology, Splanchnology, Osteology, and Neurology. Special courses for Physicians and Advanced Students are offered in the Summer Quarter; these include courses in the Anatomy of the Eye and Ear, Nose and Throat, and Pelvic Viscera. Research work is offered every quarter.

For each Major course requiring laboratory work the laboratory fee is $2.50, excepting Practical Gross Anatomy, for which the fee is $5.00 for each part. (See p. 14.) Students will be advised at the beginning of each course as to the text-books recommended.

### COURSES OF INSTRUCTION

Winter Quarter, 1902—Spring Quarter, 1902

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks.
Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

2 **Splanchnology.**— The different organs of the body are studied. Especial effort will be made to bridge the gap between gross and microscopic anatomy by extensive use of the dissecting microscope. ½Mj or Mj. Winter Quarter.

Lectures: Thurs., Fri., 8:30.
Recitation: Sec. *a*, Mon., 8:30.
Sec. *b*, Thurs., 12:00.
Laboratory: Thurs., Fri., 9:30–11:00.

ASSISTANT PROF. BENSLEY,
DR. EYCLESHYMER, AND ASSISTANTS.

Prerequisite: *Course 1, or an equivalent.*

Offered at Rush, Winter Quarter, 1902.
Lectures: Mon., Fri., 9:00.
Laboratory: Wed., Sat., 8:00–10:00. .8Mj.

DR. PARKER.

4, 5, 6. **Systematic Human Anatomy** (*Arm and Wall of Thorax, Leg and Abdomen, Head, Neck, and Thoracic Viscera*).—The courses include lectures, recitations, and laboratory work in the dissecting-room. 3Mjs or 3DMs.

Lectures.
Winter Quarter, Mon., Wed., Fri., 12:00.

PROFESSOR BARKER, DRS. KYES, AND LEWIS.

Recitations.
Winter Quarter. Sec. *a*, Mon., 2:00.
Sec. *b*, Tues., 12:00.

DRS. BENSLEY, EYCLESHYMER, LEWIS, REVELL, HARVEY, INGBERT, AND TOWER.

Laboratory work.
Winter Quarter.
Sec. *a*, Mon.–Fri., 2:00–5:00.
Sec. *b*, Mon., Tues., 9:30–1:00; Wed.–Fri., 2:00–5:00.

Spring Quarter, First Term.

The laboratory is open for elective work.
Winter Quarter (Advanced).

Sec. *b*, Wed.–Fri., 8:30–12:00.

PROFESSOR BARKER, DR. KYES, AND ASSISTANTS.

The laboratories for dissecting are open every day from 8:30 A.M. to 5:00 P.M. (Saturdays till 1:00 P.M.), during the Second Term of the Autumn Quarter, during the Winter Quarter, and during the First Term of the Spring Quarter, and students are allowed to work extra hours in the laboratory at any time during these periods.

Courses 4, 5, and 6 will also be offered at Rush Medical College during the Winter Quarter, 1902. Hours to be announced. DM.

DRS. PARKER AND OLNEY.

7. **Neurology.** — Elementary histology and microscopic anatomy of the nervous system and the sense organs. See Department XXV, Courses 3 and 3A, etc.

8. [Zoölogy 17] **Vertebrate Embryology.**—Lectures, demonstrations, and laboratory work.

Mj or DMj. Spring Quarter.

ASSISTANT PROFESSOR LILLIE.

9. **Seminar.** — A limited number of students can by special arrangement be admitted to a seminar, in which subjects of current interest in Gross or Microscopic Anatomy will be discussed.

1–2Mjs. Winter Quarter.

Hours to be arranged.

PROFESSOR BARKER.

10. **Advanced Work and Original Research.** — Excellent opportunities are afforded for advanced work in all departments of Anatomy, and especially for original investigation in anatomical problems. Suitably trained and endowed students who have the time to undertake such work will be encouraged to do so. Those capable may work independently; a limited number can be led into such work under direction.

1–4Mjs. Winter and Spring Quarters.

PROFESSOR BARKER AND ASSISTANTS.

## *XXII. THE DEPARTMENT OF ZOÖLOGY*

### OFFICERS OF INSTRUCTION

CHARLES OTIS WHITMAN, PH.D., LL.D., *Professor and Head of the Department of Zoölogy*
CHARLES BENEDICT DAVENPORT, PH.D., *Associate Professor of Zoölogy and Embryology*
FRANK RATTRAY LILLIE, PH.D., *Assistant Professor of Zoölogy and Embryology*

---

ELLIOTT ROWLAND DOWNING, S.M., *Assistant in Zoölogy* (Summer Quarter, 1901).

### FELLOWS
1901-1902

CHARLES CHRISTOPHER ADAMS, S.M. EUGENE HOWARD HARPER. A.M.
WILLIAM LAURENCE TOWER, S.B.

### INTRODUCTORY

In the department are offered (1) courses in General Biology and Comparative Anatomy, which form the foundation for the study of Medicine, and which are strongly recommended to college students preparing to study Medicine (see p. 19); (2) a course in Embryology, which is required of all medical students; and (3) advanced and research work for advanced special students.

The courses designed for graduate and advanced undergraduate students presuppose the work of the elementary courses, together with corresponding training in Physics and Chemistry, and ability to read German and French.

The research courses are designed for students and Fellows who are beginning original work, or who are already advanced in such work. The regular research courses, will be supplemented by the work of the Zoölogical Club and the Journal Club.

During the Summer Quarter general courses in Zoölogy will be given, at the University, at the Marine Biological Laboratory, Wood's Holl, Mass., and at the Biological Laboratory, Cold Spring Harbor, L. I. Provision will also be made for research students at these places.

### COURSES OF INSTRUCTION
Winter Quarter, 1902 — Spring Quarter, 1902

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks.
Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

### JUNIOR COLLEGE COURSES

5. **General Biology.** — Lectures and demonstrations dealing with topics of a general biological nature, such as: protoplasm; taxonomy; distribution and comparative anatomy in their relation to evolution; the cell theory; sex; growth; reproduction; development; the biogenetic law; evolution of the nervous system and sense organs; habit and instinct; special adaptations; variation; heredity; theories of evolution.— Open to all University students.

Mj. Winter Quarter.

Lectures: Tues.-Fri.; 4:00.

Laboratory: 2 hrs. on Friday afternoon or Saturday morning.

ASSOCIATE PROFESSOR DAVENPORT.

With the coöperation of Professors Whitman, Donaldson, Loeb, Jordan, Lillie, and others.

### SENIOR COLLEGE COURSES

16A. **Comparative Anatomy of Vertebrata** (*continued.*)—Mammalian Anatomy.

M or DM. First Term; Winter Quarter.
ASSISTANT PROFESSOR LILLIE.

16B. **General and Experimental Embryology.** Mj.

M or DM. Second Term; Winter Quarter.
ASSISTANT PROFESSOR LILLIE.

Prerequisite: *Course 15.*

17. **Vertebrate Embryology.** — Lectures, demonstrations, and laboratory work. For medical and pre-medical students. Special arrangements are made for more advanced students.

Mj or DMj. Spring Quarter.
ASSISTANT PROFESSOR LILLIE.

NOTE.—Courses 15, 16, and 17 constitute a course in Vertebrate Morphology running through the year, and should be taken together.

The ADVANCED (GRADUATE) COURSES for special students are described in the announcements of the department,

## *XXV. THE DEPARTMENT OF NEUROLOGY*

### OFFICERS OF INSTRUCTION

HENRY H. DONALDSON, Ph.D., *Professor and Head of the Department of Neurology*

### FELLOWS

1901-1902

SHINKISHI HATAI CHARLES INGBERT, A.B.

### INTRODUCTORY

The courses here offered are intended to furnish an account of the histology, microscopic anatomy, and architecture of the Nervous System such as will be required by Students of Anatomy and those preparing for Medicine or Psychology, and also to give the opportunity both for the investigation of new problems and for a critical discussion of current work in Neurology. Course 3, together with Courses 1 and 2 in the Department of Anatomy, constitute the required work in Histology and Microscopic Anatomy for those taking the first six quarters' work in Medicine.

For each Major course requiring laboratory work the laboratory fee is $2.50.

### COURSES OF INSTRUCTION

Winter Quarter, 1902—Spring Quarter, 1902

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks.
Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

1. **The Architecture of the Central Nervous System** =Course 1A. Mj. Autumn Quarter.
Lectures: Mon., Tues., 9:30.
Laboratory: Thurs., Fri., 2:00–4:00.
Professor Donaldson and Assistants.

Prerequisite: *Splanchnology.*

**The Growth of the Brain and its Physical Characters as related to Intelligence.** Mj. Winter Quarter.
Lectures: Mon., Tues., 9:30.
Laboratory: Thurs., Fri., 2:00–4:00.
Professor Donaldson.

Prerequisite: *Splanchnology.*

3. **Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs.** This course forms the last portion of a year's work in Histology and Microscopic Anatomy.
Mj. Winter Quarter.
Lectures: Mon., Tues., 8:30.
Recitation: Wed., 8:30.
Laboratory: Mon., 9.30–1:00; Tues., 9:30–12:00. Professor Donaldson and Assistants.

Prerequisite: *Splanchnology.*

3A. **Comparative Histology of the Central Nervous System and Sense Organs.**—This course is supplementary to Course 3, and offers more histological work on lower vertebrates, special attention being given to the internal and external morphology of the neurons.
Mj. Spring Quarter.
Lectures: Mon., Tues., 8:30.
Laboratory: Mon., Tues., and Wed. forenoons.

Prerequisite: *Histology and Cytology.*

4, 5, 6, 7. **Seminar.**—The purposes of the Seminar are threefold:
*a*) Initiation into the methods of research.
*b*) The history of the guiding conceptions in Neurology.
*c*) Discussion of such literature as is too technical for presentation at a general Journal Club.

3½Mjs. Winter and Spring Quarters.
2 hrs. a week. Winter Quarter, Tues., 3:00–5:00; Spring Quarter, Thurs., 3:00–5:00.
Professor Donaldson.

Admission to the Seminar is granted only after consultation with the head of the department.

8, 9, 10, 11. **Research Courses.—The Study of Neurological Problems.**
3½Mjs. First Term Summer Quarter; Autumn, Winter, and Spring Quarters. Laboratory work. Throughout the year.
Professor Donaldson.

Prerequisite: *A knowledge of the main facts of Neurology.*

## II. DEPARTMENT OF PHYSIOLOGY

(AT THE UNIVERSITY DEPARTMENT XXIV, INCLUDING PHYSIOLOGICAL CHEMISTRY AND PHARMACOLOGY)

### OFFICERS OF INSTRUCTION

JACQUES LOEB, M.D., *Professor and Head of the Department of Physiology*
B. McPHERSON LINNELL, M.D., *Assistant Professor of Physiology*
ELIAS POTTER LYON, PH.D., *Assistant Professor of Physiology*
ALBERT PRESCOTT MATHEWS, PH.D., *Assistant Professor of Physiological Chemistry*
DAVID JUDSON LINGLE, PH.D., *Instructor in Physiology*
MARTIN FISCHER, M.D., *Associate in Physiology*
WALDEMAR KOCH, PH.D., *Assistant in Pharmacology*
RALPH WALDO WEBSTER, *Assistant in Physiological Chemistry*
ARTHUR WHITE GREELEY, A.M., *Assistant in Physiology*
CHARLES HUGH NEILSON, A.M., *Research Assistant in Physiology*

### FELLOWS

1901-1902

### INTRODUCTORY

The required or minimal work for medical students includes Courses 12, 13, and 14; it is distributed over three quarters, beginning in the Spring Quarter of the first year and extending over the Autumn and Winter Quarters of the second year. Included in the courses mentioned, one to two weekly conferences will be held in which students will have an opportunity to discuss the problems worked out in the laboratory. In these courses special attention will be given to the following points: (1) The student will become familiar with the traditional and classical facts and experiments in Physiology; (2) the student will acquire sufficient knowledge of the recent advances and methods of Physiology to allow him to follow intelligently and accurately the changes necessitated by their probable bearing on medicine. For example, special attention will be given to the application of Physical Chemistry to physiological problems.

For students who have finished a year's work in Physiology and wish to specialize in certain branches of scientific or practical medicine, special quarterly courses will be offered. Such courses are, for example, the Physiological Effects of Ions, Physiological Morphology, Theory of Space Sensations, Functions of the Cortex, Comparative Physiology of the Central Nervous System, the Internal Secretions, etc. These courses consist chiefly of laboratory work.

In Physiological Chemistry the required work is Course 20, and in Pharmacology Course 21. Students desiring to do advanced or research work in Physiological Chemistry or Pharmacology should consult Assistant Professor Mathews.

Any of the recent standard text-books may be used for the courses in this department.

### COURSES OF INSTRUCTION

Winter Quarter, 1902—Spring Quarter, 1902

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks.
Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

### JUNIOR COLLEGE COURSE

1. **Introductory Physiology.**—The aim of this course is to familiarize the student with the structure and functions of the human body. Text-book: Martin's *Human Body.* Mj.

Winter and Spring Quarters; 8:30.

DR. LINGLE.

### SENIOR COLLEGE COURSES

12. **Physiology of Nerves and Muscles, of Circulation and Respiration.** 1½ Mjs. Spring Quarter.

Lectures: Mon.–Wed., 12:00.
PROFESSOR LOEB.

Conferences: Thurs., Fri., 12:00.
ASSISTANT PROFESSOR LYON,
DR. LINGLE, AND DR. FISCHER.

Laboratory:
Sec. *a*, Mon., 8:30–12:00, Tues., 9:30–12:00.
Sec. *b*, Wed., Fri., 9:30–12:00.

ASSISTANT PROFESSOR LYON,
DR. LINGLE, AND DR. FISCHER.

Prerequisite: *XIX-1, 2; XX-1, 2.*

13. **General and Theoretical Physiology.**—Including the Physiology of Metabolism, Absorption, Secretion, and Heat. Mj.

Offered at Rush Medical College, Winter Quarter, Tues., Thurs., 8:00–10-00.

ASSISTANT PROFESSOR LINNELL.

14. **Physiology of the Central Nervous System and the Senses.** Mj. Winter Quarter.

Lectures: Mon.–Wed., 11:00.

PROFESSOR LOEB.

Laboratory: Sec. *c*, Thurs., Fri., 9:00–12:00.
Sec. *d*, Thurs., Fri., 2:00–5:00.

ASSISTANT PROFESSOR LYON, DR. LINGLE,
AND DR. FISCHER.

Also offered at Rush Medical College, Winter Quarter, Tues., Thurs., 8:00–10:00.

ASSISTANT PROFESSOR LINNELL.

15. **Special Physiology of Mammals.**—Including the repetition of classical experiments such as those on blood pressure, vaso-motor nerves, secretion, localization, with study of the literature.

Mj. Winter and Spring Quarters.
½ M. Spring Quarter; Sat. forenoon.

ASSISTANT PROFESSOR LYON
AND DR. FISCHER.

Prerequisite: *A knowledge of the main facts of Physiology.*

20. **Physiological Chemistry.**

1½ Mjs. Winter Quarter.

Lectures: Tues.–Thurs., 12:00.
Recitations: Sec. *a*, Fri., 12:00.
Sec. *b*, Wed., 2:00.

Laboratory:
Sec. *a*, Wed.–Fri., 8:30–12:00.
Sec. *b*, Mon.–Wed., 2:00–5:00.

ASSISTANT PROFESSOR MATHEWS,
DR. WEBSTER, AND ASSISTANTS.

21. **Pharmacology.** Mj. Spring Quarter.

Lectures: Mon., Tues., 11:00.
Recitations: Sec. *a*, Wed., 11:00.
Sec. *b*, Thurs., 11:00.
Laboratory:
Sec. *a*, Mon.–Wed., 8:30–10:30.
Sec. *b*, Thurs., 8:30–11:00, Fri., 8:30–12:00.

ASSISTANT PROFESSOR MATHEWS
DR. KOCH, AND ASSISTANTS.

### GRADUATE COURSES

22. **Research Work in Physiological Chemistry.**

Mj. or DMj. Throughout the year.

ASSISTANT PROFESSOR MATHEWS.

23. **Research Work in Pharmacology.**

Mj. or DMj. Throughout the year.

ASSISTANT PROFESSOR MATHEWS
AND DR. KOCH.

32. **Physiology of Space Sensations.**

Mj. Winter Quarter.

Lecture: Thurs., 11:00.
Laboratory: Wed.–Fri., 2:00–5:00.

PROFESSOR LOEB.

33. **Physiological Morphology, and Theory of Tropisms.** Mj. Spring Quarter.

Lecture: Thurs., 12:00.
Laboratory: Wed.–Thurs., 2:00–5:00.

PROFESSOR LOEB.

41. **Seminar.**—Throughout the year.

Thursday, 4:00–5:00.

PROFESSOR LOEB.

42. **Research Work in Physiology.**

DMj. Throughout the year.

PROFESSOR LOEB.

## III. DEPARTMENT OF CHEMISTRY, PHARMACY, AND TOXICOLOGY *†

(INCLUDING MATERIA MEDICA; AND COURSES IN DEPARTMENT XX, CHEMISTRY, AT THE UNIVERSITY OF CHICAGO)

### OFFICERS OF INSTRUCTION AT RUSH MEDICAL COLLEGE

Professor WALTER S. HAINES
Assistant Professors JEROME H. SALISBURY, JACOB ALLEN PATTON
Associate RALPH W. WEBSTER
Fellow, HERBERT G. VAUGHAN

### OFFICERS OF INSTRUCTION AT THE UNIVERSITY OF CHICAGO

JOHN ULRIC NEF, Ph.D., *Professor and Head of the Department of Chemistry*
ALEXANDER SMITH, Ph.D., *Associate Professor of General Chemistry*
JULIUS STIEGLITZ, Ph.D., *Assistant Professor of Chemistry*
JOHN C. HESSLER, Ph.D., *Instructor in Chemistry*
LAUDER W. JONES, Ph.D., *Associate in Chemistry*
HARRY CHALMERS BIDDLE, Ph.D., *Assistant in General Chemistry*

---

WALTER STANLEY HAINES, A.M., M.D., *Professor of Chemistry, Pharmacy, and Toxicology, Rush Medical College; Professorial Lecturer on Toxicology*
HERBERT NEWBY McCOY, Ph.D., *Associate Professor of Chemistry, University of Utah,* Salt Lake City, Utah

### FELLOWS

1901-1902

WILLIAM McAFEE BRUCE, A.M.
FRANCIS WILLIAM BUSHONG, A.M.
JOHN WILKES SHEPHERD, A.M.
WALLACE APPLETON BEATTY, S.M., *Loewenthal Fellow*

The courses in Elementary Chemistry and Toxicology are given during the Freshman and Sophomore years at the University of Chicago; the courses in advanced Toxicology, in Medical Pharmacy and Materia Medica, in Sanitary Chemistry, in Clinical Chemistry, and in Prescription Writing, are given at Rush Medical College during the Junior and Senior Years.

Any recent standard text-books may be used for the courses in this department.

---

### INSTRUCTION AT THE UNIVERSITY

#### INTRODUCTORY

In this department are offered (1) courses which are suited for providing the preparation in the science of Chemistry that is indispensable to the study and practice of Medicine; (2) courses which afford the student an opportunity for acquiring a more thorough and complete preparation for following intelligently the rapid advances in modern physiology and other medical subjects; and (3) courses which are indispensable for those who intend to assist in this advance by devoting themselves in part or exclusively to research in medical subjects, after completing their medical course.

---

* For courses in *Physiological Chemistry* see the Department of Physiology.

† The courses in Physics recommended to college students preparing to study medicine (see p. 19) are the following courses offered in the Department of Physics:

1. **General Physics.**—A course in General Physics in which are presented mainly from the experimental standpoint the most important principles involved in the study of mechanics, properties of liquids and gases, heat and sound.
10 hrs. a week. Mj. Each quarter.
Winter and Spring Quarters; 8:30–10:30.
Mr. Hobbs and Dr. Gale.

Prerequisite: *Plane Trigonometry and Elementary (Entrance) Physics.*

**General Physics.**—A continuation of Course 1 covering the subjects of electricity and light.
10 hrs. a week. Mj.
Repeated. Mj. Winter Quarter; 2:00–4:00.
Dr. Millikan and Mr. Hobbs.

Prerequisite: *General Physics 1.*

3. **General Physics.**—A course of lectures and demonstrations intended to complete a year's work in Junior College Physics. The most important principles of Physics not treated in Courses 1 and 2 are presented from the lecture standpoint. 5 hrs. a week. Mj. Spring Quarter; 9:30.
Drs. Mann and Millikan,
with occasional lectures by Professor Michelson.

Prerequisite: *General Physics 1 and 2.*

More advanced courses are described in the departmental announcements of the University.

### REQUIREMENTS AND ELECTIVES IN CHEMISTRY

Medical students who receive entrance credit for High School Chemistry* are required to take General Chemistry, 1B and 2B, or the two Double Minor courses, 1A and 2A (Summer Quarter).

All medical students are required to take the lectures on Organic Chemistry, 4 (½ Mj.). Organic Chemistry, 17 (Mj.), Summer Quarter, or 14 and 15 (2 Mjs.) may be substituted for Course 4.

Students who are preparing for the study of medicine, and who are also candidates for a bachelor's degree in the University of Chicago, are strongly recommended to take at least three Majors more of chemistry, viz., Qualitative Analysis, 6 and 7, and the laboratory work in Organic Chemistry, 5 or 18.

Candidates for a bachelor's degree who expect to do research work in physiology or allied medical subjects may with advantage elect further courses from the following: Quantitative Analysis, 9; Organic Chemistry, 14, 15, and 16; Theoretical Chemistry, 31 and 32; or Advanced General Chemistry, 23.

### COURSES OF INSTRUCTION

Winter Quarter, 1902 — Spring Quarter, 1902

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

#### Primarily for the Junior Colleges

1, 2, 3. **General Inorganic Chemistry.**—*Elementary Course.*
Class room 3 hrs. a week, 12:00.
Laboratory 6 hrs. a week.
3Mjs. Winter Quarter.
Associate Professor Smith.
Spring Quarter.
Assistant Professor ———.

This is a continuous course through three quarters.

The lectures and class-room work of 1, 2, and 3 may be taken by Graduate Students without the laboratory work or laboratory fee.

The lectures and class-room work of 2A may be taken by Graduate Students without the laboratory work or laboratory fee.

Students offering entrance chemistry do more advanced laboratory work than those not offering it.

Courses 1 and 1A must be preceded by Preparatory (entrance) Physics or its equivalent, including some laboratory work.

1B, 2B. **General Inorganic Chemistry.**—*Advanced Course.* 2Mjs. Winter Quarter.
Class room 3 hrs. a week, 8:30.
Laboratory 6 hrs. a week. Dr. McCoy.

Prerequisite: *Entrance Chemistry and Physics, 1 unit each.*

This is a special course designed to form a sequel to high-school chemistry. The lecture, laboratory, and recitation work are all distinct from that of Courses 1 and 2. Whenever the preparation justifies it, qualitative analysis (Course 6) may be substituted for 2B.

4, 5. **Organic Chemistry.**—*Elementary Course.*
Lectures, with experiments, 3 hrs. a week, recitation, 1 hr. a week, 8:30. ½Mj. (Course 4).
Laboratory work 6 hrs. a week. ½Mj. (Course 5).
Mj. Spring Quarter.
Dr. Jones.

Prerequisite: *General Chemistry.*

The lectures may be taken without laboratory work as a ½Major.

#### Primarily for the Senior Colleges

6, 7. **Qualitative Analysis.**—Chiefly laboratory work.
2Mjs. or 2DMs. 8 or 16 hrs. a week laboratory.
2 hrs. a week class room.
Winter, and Spring Quarters.
Assistant Professor Stieglitz and Dr. Jones.

Prerequisite: *General Chemistry.*

Courses 6, 7, form a continuous course, which may be begun in any quarter.

9. **Quantitative Analysis.**—Chiefly laboratory work in volumetric and gravimetric analysis.
Mj. or DM. 10 or 20 hrs. a week.
Winter and Spring Quarters.
Assistant Professor Stieglitz.
(Dr. Jones assisting in the Laboratory.)

Prerequisite: *Qualitative Analysis.*

14, 15, 16. **Organic Chemistry.**—The compounds of carbon, including the fatty and the aromatic series. Lectures.
2½Mjs. Winter Quarter and First Term of Spring Quarter; 12:00. Professor Nef.

Prerequisite: *General Chemistry and Qualitative Analysis.*

---

*Medical students who enter without receiving credit for High School Chemistry are required to take General Chemistry, Courses 1 and 2, or 1A, 2A (2 Mjs., Summer Quarter), the lectures on Organic Chemistry, 4 (Minor), and two additional Majors, which may be selected from the courses in General Chemistry, Qualitative Analysis, or Organic Chemistry.

31, 32. **Theoretical Chemistry.**—With special reference to physical methods. 2 hrs. a week.
2Ms. Winter and Spring Quarters; 8:30.
ASSISTANT PROFESSOR ———.
Prerequisite: *College Physics and General Chemistry.*

34. **Physico-Chemical Methods.**—Determination of specific gravity, molecular weights, etc. Laboratory work, 5 hrs. a week for one term.
½Mj. Spring Quarter.
ASSISTANT PROFESSOR ———.

See the Departmental Announcements for other courses in Chemistry, suitable for advanced special students in medicine.

JUNIOR AND SENIOR COURSES (RUSH)

52. **Clinical Chemistry.**—A lecture, conference, and laboratory course, dealing with the urine and other animal fluids in their relation to disease.
Lectures: First Term, Sat., 11:00; Second Term, Fri., Sat., 11:00.
PROFESSOR HAINES.
Conference: Mon., 11:00.
DR. VAUGHAN.
Laboratory: Second Term, Tues., Wed., Thurs., 10:00–12:00,
Spring Quarter, 1902. .8Mj.
PROFESSOR HAINES, ASSISTANT PROFESSOR SALISBURY, AND DR. VAUGHAN.

54. **Principles of Prescribing.**—A lecture and conference course, occupying two hours weekly for one term, on the principles of prescription writing, during which the following topics are considered, viz.: general form and subdivisions of a complete prescription, apothecary and metric system of weights and measures, prescribing solids and liquids of all kinds, particular attention being given to the subject of incompatibles. Classes are limited to twenty-four. ASSISTANT PROFESSOR PATTON, AND DR. VAUGHAN.
Elective for Juniors and Seniors.
Winter Quarter: Each Term, Tues., Thurs., 10:00.
Spring Quarter: Second Term, Tues., Thurs., 10:00.

55. **Incompatibles in Prescribing.**—A laboratory and conference course, occupying 4 hours weekly for one term, on incompatibles in prescription writing. ASSISTANT PROFESSOR PATTON AND DR. VAUGHAN.
Spring Quarter: First Term, Tues., Thurs., 10:00–12:00. .6M.

56. **Pharmacology.**—A lecture and conference course on the action of the important drugs.
ASSISTANT PROF. PATTON AND DR. VAUGHAN.
Lectures: First Term, Mon., Wed., Fri.; Second Term, Mon., 10:00,
Conference: Sat., 10:00. .6Mj.

---

## V. DEPARTMENT OF THERAPEUTICS AND PREVENTIVE MEDICINE

### OFFICERS OF INSTRUCTION

INGALS PROFESSOR HENRY BAIRD FAVILL
INSTRUCTORS JAMES C. GILL, GEORGE W. HALL
ASSOCIATES ANDERS FRICK, E. B. HUTCHINSON
ASSISTANT HUGO AD OLDENBERG

### INTRODUCTORY

The department will give to the Junior class a full course in the subjects of general therapeutics together with a discussion of all therapeutic resources and a laboratory training in manipulative methods.

The instruction will be coördinated with the instruction in special therapeutics as taught in the departments of practice, to the end that repetition and conflict as far as possible may be eliminated.

The lectures and conferences will be given in conjunction with laboratory work, for the purpose of elucidating the course as it progresses.

It is desired to emphasize the physiologic and hygienic aspects of the subject, for which reason no independent course in hygiene will be given.

In immediate sequence with the Junior work, a course on Preventive Medicine will be given the Seniors in the Autumn Quarter. In this course will be discussed the origin and extension of diseases and morbid processes in relation to avoidance.

Any recent standard text-books may be used for the courses in this department.

### COURSES OF INSTRUCTION

### Junior Year

**Course 1.** Therapeutics.—A lecture and conference course. .6Mj. Tues., Thurs., Sat., 8:00.
Winter Quarter, 1902.
Professor Favill, Drs. Gill, Hall, and Frick.

**Course 2.** Therapeutics.—A lecture and conference, course in continuation of Course 1. .6Mj.
Tues., Thurs, Sat., 8:00.
Spring Quarter, 1902.
Professor Favill, Drs. Gill, Hall, and Frick.

**Course 3.** Practical Therapeutics.—A laboratory and practical course in Massage, Hydrotherapy, Aërotheraphy, and special manipulations, given to the class in sections. .4M.
Tues., Wed., Thurs., Fri., 4:00–6:00.
Winter and Spring Quarters, 1902.

Each section will be given about twenty-four hours.

**Course 4.** Prescription-Writing.—A didactic and conference course in the art of prescription-writing. Given to the class in small sections. Hours to be announced. .4M.

Spring Quarter, 1902. Each section twelve hours.

---

## VI. THE DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

### AT THE UNIVERSITY DEPARTMENT XXVIII

### OFFICERS OF INSTRUCTION

LUDVIG HEKTOEN, M.D., *Professor of Pathology and Head of the Department of Pathology and Bacteriology*
EDWIN OAKES JORDAN, Ph.D., *Associate Professor of Bacteriology*
GEORGE H. WEAVER, M.D., *Assistant Professor of Pathology*
EDWIN RAYMOND LE COUNT, M.D., *Assistant Professor of Pathology*
H. GIDEON WELLS, M.D., *Associate in Pathology*
WILLIAM BUCHANAN WHERRY, M.D., *Assistant in Bacteriology*
——————————, *Assistant in Pathology*
MAXIMILIAN HERZOG, M.D., *Professor of Pathology in the Chicago Policlinic* (Winter Quarter, 1902)

### FELLOWS

MARY HEFFERAN, A.M. (Bacteriology)
LUDWIG M. LOEB, M.D. (Pathology)

### INTRODUCTORY

The courses offered by the department include such as cover the required work in Pathology and Bacteriology in the curriculum of medicine, as well as advanced courses arranged for those desiring a more extended knowledge of the subjects, and for those wishing to qualify themselves for research.

At the University of Chicago the Department possesses all necessary equipment for pathologic and bacteriologic work. There is access to a good museum for teaching purposes, and to complete files of the important serial publications. Any recent standard text-book may be used for the courses in this department.

For each Major or Double Minor Course requiring laboratory work the laboratory fee is $2.50.

The Pathological Laboratory of Rush Medical College possesses about one hundred Leitz, Bausch and Lomb, and Zeiss microscopes, each with three or two objectives and substage apparatus, some fourteen microtomes, and all necessary equipment for pathologic and bacteriologic work. Abundant well-lighted desk-room with shelves and lockers is provided. The laboratory has a good museum for teaching purposes and a special departmental library containing complete files of the important pathological and bacteriological journals in the English, French, and German languages. Adjacent hospitals furnish abundant material for demonstration, advanced work, and research.

Beginning with Summer Quarter, 1901, the required courses of the first two years in Pathology and Bacteriology—about 1½ Majors in each study—will be given in the University of Chicago. The additional credit of 1 Major of Pathology required of students in the third and fourth years may be obtained by selection from the courses offered at Rush Medical College, all of which are elective.

## COURSES OF INSTRUCTION

Spring Quarter 1902

### Freshmen and Sophomore Courses (University)

2. **Public Hygiene.**— The application of Bacteriology to municipal hygiene. Water supply, food supply, sewage disposal, etc. Mj. Spring Quarter.
Associate Professor Jordan.

3 and 4. **General Pathology and Pathological Histology.**— A practical laboratory course is given in general pathologic histology, supplemented by experiment, by lantern demonstrations, and by the study of fresh and museum specimens, by recitations in general pathology, and by lectures.
1½ or 2Mjs. Winter and Spring Quarters.
Professor Hektoen, Dr. Wells, and Assistants.

Prerequisite : *Microscopic Anatomy and Bacteriology.*

Offered also at Rush Medical College, Winter Quarter, 1902, Mon.–Sat., 10:00–12:00. DMj.
Assistant Professor Herzog.

5A, 5B, and 5C. **Advanced Bacteriology.**
Mj. Winter and Spring Quarters.
Lectures on immunity and infection are given in connection with Course 5B.
Associate Professor Jordan and Dr. Wherry.

### Graduate Courses

10. **Research in Pathology** (University).— Open to a limited number of specially qualified students and graduates in medicine.
Mj. or DMj. Each Quarter.
Hours arranged for each student.
Professor Hektoen and Dr. Wells.

11A, 11B, 11C. **Bacteriology** (University).— Research.
Mj. or DMj. Winter, and Spring Quarters.
Associate Professor Jordan.

### Junior and Senior Courses (Rush)

12. **Pathologic Anatomy and Histology.** — A laboratory, lecture, and conference course limited to fifty students. Practical instruction is given in the methods of making post-mortem examinations and of properly recording the results. The student is required to study and describe the gross appearances of diseased organs and tissues, which he then studies microscopically. Bacteriologic and chemic methods and experiments are employed whenever indicated, and the clinical relations (pathologic physiology) of the morbid conditions are emphasized.
Mj. 1:00–3:00 daily except Saturday.
Winter and Spring Quarters, 1902.
Assistant Professor LeCount. and Dr. Loeb.

13. **The Common Infectious Diseases.**— The Bacteriology, Pathologic Anatomy, and Histology, as well as the important literature of some of the more frequent infectious diseases. DM.
Spring Quarter, 1902. Daily, 8:00–12:00, except Saturday.
Assistant Profs. Weaver and LeCount.

14. **The Histology and Microscopic Diagnosis of Tumors.** M.
Second Term, Winter Quarter, 1901–1902; daily, 3:00–5:00, except Saturday.
Assistant Prof. LeCount.

16. **Chemical Pathology.**—A lecture and conference course in which the chemical aspects of general and special pathology will be considered by conferences and demonstrations. ½Mj.
Spring Quarter, Mon., 4:00 p. m., Sat., 11:00 a. m.
Dr. Wells.

17. **Advanced Laboratory Work and Research in Pathology.** — Open to a limited number of specially qualified students and graduates in medicine.
Hours arranged for each student. Credit given based on time and quality of work.
Each Quarter, 1901–1902.
Professor Hektoen and Assistant Prof. LeCount.

18. **General Pathological Anatomy.**—A lecture course, with demonstrations and autopsies.
Mon., 1:00; Sat., 11:00; Thurs., 5:00.
M. Winter Quarter, 1902.
Assistant Professor LeCount.

## VII. DEPARTMENT OF MEDICINE

### OFFICERS OF INSTRUCTION

PROFESSORS FRANK BILLINGS, HENRY M. LYMAN, NORMAN BRIDGE, DANIEL R. BROWER, JOHN M. DODSON, JAMES B. HERRICK

ASSOCIATE PROFESSOR ALFRED C. COTTON

ASSISTANT PROFESSORS HAROLD N. MOYER, BERTRAM W. SIPPY, GEORGE H. WEAVER

INSTRUCTORS S. R. SLAYMAKER, JOSEPH A. CAPPS, WILLIAM J. BUTLER, F. S. CHURCHILL, THOMAS R. CROWDER, JOSEPH L. MILLER

ASSOCIATES CHARLES A. WADE, J. W. VANDERSLICE, JAMES A. HARVEY

ASSISTANT THEO. WILD, JR.

CLINICAL ATTENDANTS IN THE DISPENSARY, DRS. SALISBURY, HARVEY, MELOY, STEFFENSON, McCURDY, MERRILL

FELLOW ALEXANDER F. STEVENSON

### EXTRA-MURAL TEACHERS

AT THE WEST SIDE HEBREW DISPENSARY

ASSISTANT CLINICAL PROFESSOR (*extra-mural*) ISAAC ABT
ASSISTANT CLINICAL PROFESSOR (*extra-mural*) ROSA ENGELMAN
ASSISTANT CLINICAL PROFESSOR (*extra-mural*) SYDNEY KUH
CLINICAL INSTRUCTOR (*extra-mural*) A. W. SCHRAM
CLINICAL ASSISTANT (*extra-mural*) MAY MICHAEL

AT THE CHICAGO ISOLATION HOSPITAL

ASSISTANT CLINICAL PROFESSOR (*extra-mural*) HEMAN SPALDING

### COURSES OF INSTRUCTION

#### JUNIOR YEAR

**Course 1.**—The Anatomy, Physiology, and Hygiene of Infancy. A recitation and conference course.
Mon., Wed., Fri., 9 : 00. .6M.
First Term, Spring Quarter, 1902.
DR. BUTLER.

Text-book: *The Anatomy and Physiology of Infancy and Childhood*, Cotton.

**Course 1*w*.**— Physical Diagnosis in Infancy and Childhood. A recitation and conference course. .4M.
Mon., Wed., 9: 00 A. M.
First Term, Winter Quarter, 1902.
Limited to 24 students.
DR. J. W. VANDERSLICE.

**Course 1*x*.**— Physical Exploration in Infancy and Childhood. A recitation and conference course.
Mon., Wed., Fri., 10: 00–11: 00 A. M. .6M.
First Term, Spring Quarter, 1902.
Limited to 24 students.
DR. CHARLES A. WADE.

**Course 1*y*.**— Methods of Clinical study of Infants and Children. A recitation and conference course.
Mon., Wed., 9: 00–10: 00. .4M.
Second Term, Winter Quarter, 1902.
Limited to 24 students.
DR F. S. CHURCHILL.

**Course 4.**— Diseases of the Kidney, the Blood, and Vascular System; and Infectious Diseases. A recitation and conference course. .6Mj.
Mon., Wed., Fri., 9 : 00.
Winter Quarter, 1902.
DRS. SLAYMAKER, MILLER, MELOY, HOLLENBECK.

**Course 5.**— Diseases of the Nervous System and General Diseases. Recitation and conference course.
Mon., Wed., Fri., 9 : 00. .6Mj.
Spring Quarter, 1902.
DRS. SLAYMAKER, HARVEY, MILLER, MELOY.

Any recent standard text-book on the Practice of Medicine may be used for Courses 4, and 5.

**Course 6.**— A Clinical Course in the Central Free Dispensary. 1.2M.
Daily, 10 : 00–12 : 00.
In sections, one month for each section.
Winter and Spring Quarters, 1902.

#### SENIOR YEAR

**Course 13.**— Clinical Medicine. A clinical course.
Mon., Thurs., 10: 00–12: 00. .4Mj.
Winter and Spring Quarters, 1902.
PROFESSOR BILLINGS.

**Course 14.**— Diseases of the Brain. A lecture and clinical course. .4M.
Wed., Fri., 9:00.
Second Term, Winter Quarter, 1902.
PROFESSOR BROWER.

Students taking this course are advised to register also for Course VII–22.

**Course 16.**— Diseases of the Respiratory Tract of Infancy and Childhood. A lecture and clinical course. .8M.
Tues., Thurs., 9:00 (First Term only).
Fri., 10:00–12:00 (throughout the Quarter).
Winter Quarter, 1902.
ASSOCIATE PROF. COTTON.

**Course 17.**— Diseases of the Kidney and Vascular System. A lecture and clinical course. .4M.
Mon., Wed., 9:00.
First Term, Spring Quarter, 1902.
ASSISTANT PROF. SIPPY.

Students taking this course are advised to register also for Course VII–21.

**Course 18.**—Mental Diseases. A lecture and clinical course. .4M.
Wed., Fri., 9:00.
First Term, Spring Quarter, 1902.
PROFESSOR BROWER.

**Course 19.**—The Nervous Diseases of Infancy and Childhood. A clinical and lecture course. .8M.
Tues., Thurs., 9:00 (First Term only).
Fri., 10:00–12:00 (throughout the Quarter).
Spring Quarter, 1902.
PROFESSOR DODSON.

**Course 20.**— Diseases of the Muscles and Peripheral Nerves. A lecture and clinical course. .4M.
Wed., Fri., 9:00.
Second Term, Spring Quarter, 1902.
ASSISTANT PROF. MOYER.

**Course 21.**—General Medicine. A clinical course at Cook County Hospital. .4Mj.
Tues., Sat., 10:00–12:00 throughout the year.
PROFESSOR HERRICK, AND
ASSISTANT PROF. SIPPY.

**Course 22.**—Mental and Nervous Diseases. A clinical course at Cook County Hospital. .2Mj.
Fri., 4:00–6:00 throughout the year.
Each Quarter.
PROFESSOR BROWER.

**Course 23.**— Beside instruction in Pneumonia and allied disorders. In lieu of the Ward Clinics heretofore announced, a course will be offered, limited to six students each term, during the Winter and Spring Quarters of 1902. .4M.
Sat., 9:00–11:00 A. M., Cook County Hospital.
ASSISTANT PROFESSOR LINNELL.

**Course 24.**—Laboratory Diagnosis. A laboratory course in the chemical, microscopical, and bacteriological examination of blood, urine, sputum, gastric contents, feces, secretions, exudates, etc., and their pathologic and clinical significance, especial attention being given to their bearing upon diagnosis. Each class limited to 24 men. Repeated each quarter throughout the year.
Tues., Wed., Fri., Sat., 10:00–12:00. .4Mj.
ASSISTANT PROF. WEAVER,
DRS. CROWDER, MILLER, STEVENSON.

**Course 24*x*.—Advanced Haematology.** A laboratory and conference course in the technique, histology, and pathology of the blood, including an exhaustive study of clinical cases of the literature of the subject. .6M.
Tues., Thurs., Sat., 8:00–10:00.
Second Term, Winter Quarter, 1902.
Limited to six students.
DR. ALEXANDER F. STEVENSON.

Prerequisites: *General Pathology and Laboratory Diagnosis.*

**Course 25.**—Seminar in Classics of Medical Literature.

In this course classic contributions to medical literature will be studied by means of reading, essay-writing, conference, and discussion. The number of students taking this course will be limited to twelve.

For 1902 the subjects taken up will be:

1. Laennec on Diseases of the Chest, selected chapters.
2. Addison on Diseases of the Suprarenal Capsule.
3. Report of the London Clinical Society on Myxoedema.
4. Koch on the Bacillus of Tuberculosis.
5. Selections from Trousseau's Clinical Medicine.
6. Gerhard on Typhoid Fever.

Copies of these works in English will be found in the Rush Medical College Library. .4M.
Spring Quarter. Hours to be announced.
PROFESSOR HERRICK.

**Course 27*a*** (*extra-mural*).—A course in Clinical Paediatrics at the West Side Hebrew Dispensary. .4M.
Mon., Thurs., 4:00–6:00 (throughout the year).
Each section one Term. Limited to eight students each term.
ASST. CLINICAL PROF. ISAAC ABT,
DR. MAY MICHAEL.

Students taking this course should register also for Course 12.

**Course** 27*b* (*extra-mural*).—Course in Clinical Paediatrics at West Side Hebrew Dispensary. .4M.
Wed., Sat., 2:00–4:00 (throughout the year).
Each section one Term. Limited to eight students each term. (Grouped with Course VIII–17.)
Asst. Clinical Prof. Rosa Engelman.

**Course** 27*c* (*extra-mural*),—Course in Clinical Neurology, West Side Hebrew Dispensary. .4M.
Wed., Sat., 4:00–6:00 (throughout the year).
Each section one Term. Limited to eight students each term. (Grouped with Course XI–8.)
Asst. Clinical Prof. Sydney Kuh.

**Course** 27*d* (*extra-mural*).—A Clinical Course in Variola, at the Chicago Isolation Hospital, at intervals as material is afforded. .2M.
Classes limited to ten each.
Asst. Clinical Prof. Heman Spalding.

**Course** 27*e* (*extra-mural*).—A Course in Clinical Medicine at St. Luke's Hospital, limited to small groups.
Wed., 4:00–6:00 (throughout the year). .2Mj.
Professor Henry B. Favill.

Students taking this course should register also for Course VIII–16.

**Course** 27*f*.—A clinical course in general medicine at the West Side Hebrew Dispensary. .4M.
Wed., Sat., 4:00–6:00.
Winter and Spring Quarters; each course extends over six weeks. Limited to eight students each term. Dr. Albert W. Schram.

Assistant Clinical Professor Abt holds a clinic in Diseases of Children in the arena of the Cook County Hospital every Tuesday from 4:00–6:00.

**Course** 27*g*.—A clinical course at St. Anthony's Hospital, corner Douglas boulevard and Nineteenth street. .6M.
Mon., Wed., 1:00–4:00. Each course one Term.
Winter and Spring Quarters.
Limited to eight students.
Drs. Laurence Ryan and
Fred. J. E. Ehrman.

**Course** 28.—A Course in Clinical Medicine at Cook County Hospital.
Thurs., 7:00–8:00 (throughout the year).
Assistant Prof. Sippy.

**Course** 29.—The Case Method of Study, A clinical and conference course, with especial reference to the methods of eliciting subjective and objective symptoms and the recording of systematic and complete case histories. .4Mj.
Wed., 10:00–12:00.
Winter Quarter.
Limited to twenty-four students.
Dr. Jos. L. Miller.

Other Clinical Courses will be offered in some of the outlying hospitals, by members of the several attending staffs, for which credit will be allowed. Detailed statement of these courses will be announced later.

## VIII. DEPARTMENT OF SURGERY

### OFFICERS OF INSTRUCTION

Professor NICHOLAS SENN
Professor CHRISTIAN FENGER
Professor ARTHUR DEAN BEVAN
Associate Professor WM. T. BELFIELD
Associate Professor in Dental Surgery TRUMAN W. BROPHY
Associate Clinical Professor D. W. GRAHAM
Assistant Professors ALBERT I. BOUFFLEUR, FREDERIC S. COOLIDGE, EMANUEL J. SENN
Instructors CHARLES A. PARKER, FRANK W. JAY, ERNEST J. MELLISH
Associates EMANUEL J. FRIEND, KARL DOEPFNER, DONLON, DOANE
Assistants DRS. DONLON, RYERSON, THOMPSON

AT ST. LUKE'S HOSPITAL
Assistant Clinical Professor (*extra-mural*) LEWIS L. MacARTHUR

AT THE COOK COUNTY HOSPITAL
Assistant Clinical Professor (*extra-mural*) A. E. HALSTEAD

AT THE WEST SIDE HEBREW DISPENSARY

Assistant Clinical Professor (*extra-mural*) EMANUEL FRIEND
Assistant Clinical Professor (*extra-mural*) LOUIS A. GREENSFELDER

### COURSES OF INSTRUCTION

#### Junior Year

*2. **Principles and Practice of Surgery.**—A recitation and conference course. .6M.
Mon., Wed., Fri., 8 : 00.
Winter Quarter, 1902.
Drs. Jay, Friend, Doepfner, Donlon, Ryerson, Thompson.

*3. **Practice of Surgery.**—Recitation and conference course .6Mj.
Mon., Wed., Fri., 8 : 00.
Spring Quarter, 1902.
Drs. Donlon, Jay, Mellish, Friend.

3*b*. **Surgical Anatomy.**—Course with demonstrations and drawings of the abdomen and pelvis.
Tues., Sat., 11:00. .4Mj.
Winter Quarter, 1902.
Professor Bevan and Assistants.

3*c*. **Surgical Anatomy.**—Course with demonstrations and drawings of the head, neck, and thorax.
Tues., Sat., 11:00. .4 Mj.
Spring Quarter, 1902.
Professor Bevan and Assistants.

4. **Demonstration Course in Bandaging.**—A practical course in bandaging. .4M.
Mon., Tues., Wed., 3 : 00–5 : 00.
Six weeks for each section ; throughout each Quarter. Dr. Parker.

5. **Clinical Surgery. Central Free Dispensary.**
Daily, 1 : 00–3 : 00. M.
Throughout the year ; one month for each section.
Assistant Professor Coolidge,
Drs. Friend and Doane.

#### Senior Year

7. **Lectures on Surgery.**—Concluding surgery of abdomen and taking up surgery of the thorax.
Mon., Wed., Fri., 8 : 00. .6Mj.
Winter Quarter, 1902.
Associate Prof. Bevan,
Including a course of Rectal surgery given by
Assistant Professor E. J. Senn.

8. **Lectures on Surgery.**—Dealing with surgery of the head and neck. .6Mj.
Mon., Wed., and Fri., 8: 00.
Spring Quarter, 1902.
Associate Professor Bevan.

Including a course in Orthopedic surgery given by Assistant Prof. Coolidge.

10. **A Practical Course in Operative Surgery** on the cadaver and in surgical appliances, given to the class in sections. .6M.
Tues., Thurs., Fri., 4 : 00–6 : 00.
Repeated each Term of the Winter Quarter and the First Term of the Spring Quarter.
Operative Surgery.
Assistant Prof. Bouffleur.
Surgical Appliances and Bandaging.
Dr. Parker.

11. **College Clinics.** .8Mj.
Tues., Thurs., 2 : 00–4 : 00.
Professor Senn.
Wed., 4 : 00–6 : 00 ; Sat. 2 : 00–4 : 00. Throughout the year.
Professor Fenger.

12. **Presbyterian Hospital Clinic.** .4M.
Mon., Wed., Fri., 10 : 00–12 : 00 a. m. Throughout the year.
Associate Professor Bevan.
Tues., Thurs., Sat., 10 : 12 : 00 a. m.
Associate Clinical Prof. Graham.

13. **Clinic at Cook County Hospital.** .2Mj.
Thurs., 8: 00 –10 : 00 p. m. Throughout the year.
Each Quarter.
Assistant Prof. Bouffleur.

15. **Dental Surgery.** — A lecture by Associate Prof. Brophy. .6M.
Won., Med., Thurs., 8 : 00.
First Term, Winter Quarter, 1902.

---

*The text-books required for Courses 1, 2, and 3, are Senn's *Principles of Surgery*, Senn's *Tumors*, Senn's *Emergency and Minor Surgery*, and Von Esmarch's and Kowalzig's *Operative Surgery*, edited by Senn.

EXTRA-MURAL COURSES.

**Course 16.**—A course in clinical surgery at St. Luke's Hospital, classes limited to ten students. .2M.
Wed., 2:00–4:00.
Each course extends over one term (6 weeks).
ASSISTANT CLINICAL PROF. LEWIS L. MACARTHUR.

**Course 17.**—A course in clinical surgery at the West Side Hebrew Dispensary, classes limited to eight students. (Grouped with VII–276.) .4M.
Wed., Sat., 4:00–6:00.
Each course extends over one term.
ASSISTANT CLINICAL PROFESSOR EMANUEL FRIEND.

**Course 18.**—A course in clinical surgery at the Cook County Hospital, classes limited to twelve students. Throughout the year. .4M.
ASSISTANT CLINICAL PROFESSOR A. E. HALSTED.

**Course 19.**—A course in clinical surgery at the West Side Hebrew Dispensary. .4M.
Mon., Thurs., 4:00–6:00.
Each term throughout the year.
Limited to eight students.
DR. LOUIS A. GREENSFELDER.

## IX. DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

PROFESSOR J. CLARENCE WEBSTER
ASSISTANT PROFESSOR HENRY B. STEHMAN
ASSISTANT CLINICAL PROFESSORS EFFA V. DAVIS, CHAS. E. PADDOCK
INSTRUCTORS: RUDOLPH W. HOLMES, HENRY F. LEWIS
ASSOCIATES: FREDERICK A. JEFFERSON, PALMER FINDLEY
ASSISTANT FRANK E. PIERCE
ATTENDANTS IN DISPENSARY: EFFA V. DAVIS, JULIA A. MERRILL, ELIZABETH HAY, PALMER FINDLEY, HENRY F. LEWIS, FRANK PIERCE

AT THE COOK COUNTY HOSPITAL
ASSISTANT CLINICAL PROFESSOR (*extra-mural*) E. L. MOOREHEAD

### INTRODUCTORY

The subject of Obstetrics is taught by lecture and conference course in the Junior Year, a practical course in obstetric manipulations upon the manikin, and by clinical conferences in which the class, in small sections, examine patients in various institutions. During the Senior Year students are assigned to cases of labor in these institutions and at the homes of patients, being allowed to conduct the same under the direction of the assistant who accompanies them.

Gynecology is taught by lectures (didactic and clinical), microscopic and naked eye demonstrations, conference, and "touch" courses. Clinical material is furnished by the Presbyterian Hospital and the Central Free Dispensary.

Any recent standard text-book may be used for the courses in this department.

### COURSES OF INSTRUCTION

#### OBSTETRICS

JUNIOR YEAR

**Course 2.**—A lecture course on the Pathology of Pregnancy, Abnormal Labor, and Obstetrical Operations. .4Mj.
Tues., Thurs., Sat., 9:00; Winter Quarter, 1902.
PROFESSOR WEBSTER.

SENIOR AND JUNIOR YEARS

**Course 3.**—A conference course in Obstetrics. The text-book used will be any recent standard work.
Tues., Sat., 9:00; Spring Quarter, 1902. .4Mj.
DRS. JEFFERSON, LEWIS, PIERCE.
Prerequisite: *Course 2.*

**Course 4.**—A course in practical Obstetrics given to the class in sections. .6M.
Mon., Wed., Fri., 1:00–3:00 and 4:00–6:00.
Tues., Thurs., Sat., 1:00–3:00.
Each course extends throughout one term.
Winter and Spring Quarters, 1901, 1902.
DRS. HOLMES, KEYES, PIERCE.

SENIOR YEAR

**Course 5.**—Clinical Obstetrics in the Maternity Department of the Presbyterian Hospital, Charity Hospital, Chicago Maternity, and Central Free Dispensary, under the direction of PROFESSOR WEBSTER, ASSISTANT PROFESSORS DAVIS, PADDOCK, DR. HAY, DR. MERRILL.
Throughout the year. .4M.

**Course 6.**—Obstetrical practice, attendance upon cases of confinement in various hospitals, and at the homes of the patients. Each student will be summoned to cases at the time of delivery, and will attend the patients during and after delivery, under supervision.

Clinical records must be kept by students and certificates obtained.

Throughout the year. .4M.

### GYNECOLOGY

#### JUNIOR YEAR.

**Course 7**—A lecture course in Gynecology.

Mon., Fri., 9:00 A.M.; Spring Quarter, 1902.

PROFESSOR WEBSTER.

#### SENIOR YEAR.

**Course 8.**—Clinical Gynecology. A college clinic and conference by PROFESSOR WEBSTER. .2Mj.

Wed., 10:00–12:00 each Quarter.

**Course 9.**—A conference course in Practical Gynecology. Winter Quarter. .4M.

DRS. FINDLEY AND PIERCE.

**Course 10.**—Dispensary clinics. A clinical demonstration and "touch" course in the Dispensary, given in sections. .4M.

Daily 1:00–3:00 each Quarter throughout the year.

Each section will work two hours daily for two weeks. DRS. FINDLEY, LEWIS, PIERCE.

**Course 11.**—A Microscopical course illustrating the histology and pathology of the female generative organs, both in the pregnant and non-pregnant state. .4M.

Hours to be subsequently assigned.

Winter and Spring Quarters.

DR. FINDLEY.

**Course 12.**—A clinical course in gynecology at the West Side Dispensary. .2M.

Tues., 4:00–6:00. Limited to three students.

DR. H. BANGA.

---

## X. DEPARTMENT OF DISEASES OF THE CHEST, THROAT, AND NOSE

### OFFICERS OF INSTRUCTION

PROFESSOR E. FLETCHER INGALS
ASSOCIATE PROFESSOR JOHN EDWIN RHODES
ASSISTANT PROFESSOR CHARLES J. WHALEN
INSTRUCTORS GEORGE W. HALL, OTTO T. FREER
ASSOCIATES J. F. DOLAMORE, GEORGE A. TORRISON, GLENN M. HAMMON, MORLEY D. BATES
ASSISTANTS J. E. RAYCROFT, N. P. COLWELL
CLINICAL ASSISTANTS HERMAN C. HILL, JOHN L. JACQUE, C. S. BRANNAN

AT THE WEST SIDE HEBREW DISPENSARY

GEORGE MORGENTHAU, ASSISTANT CLINICAL PROFESSOR (*extra-mural*)
LOUIS E. GORDON, CLINICAL ASSISTANT (*extra-mural*)

AT THE COOK COUNTY HOSPITAL

ARTHUR E. PRICE, CLINICAL ASSOCIATE (*extra-mural*)

### INTRODUCTORY

The work of this department is given to members of the Junior and Senior classes, and includes lecture and recitation courses upon the diseases of the chest, throat, and nose; and clinical courses in the Amphitheater and in the Dispensary. The abundant material available enables the students to observe repeatedly, and examine individually, patients illustrating well-nigh every phase of chronic disease affecting the chest and air-passages, and to see performed the principal laryngological operations. Recitation courses enforce thorough drill in the principles and practice involved. Besides these there are practical courses in physical diagnosis and in laryngology, and a special course in intubation, in which by personal experience the students become familiar with physical signs and with the methods of examination and the use of instruments.

## COURSES OF INSTRUCTION

### JUNIOR YEAR

1. **Diseases of the Chest.**—A lecture and recitation course on physical diagnosis and some of the principal diseases of the chest. .6Mj.
Spring Quarter 1902; Tues., Thurs., Sat., 8:00.
ASSOCIATE PROF. RHODES, AND DR. DOLAMORE.

2. **Clinical Courses in Central Free Dispensary.** Daily except Wednesday from 1:00–3:00 throughout the year. Each section will spend two weeks in this department. .4M.
DRS. TORRISON, FREER, DOLAMORE.

3. **Physical Diagnosis.**—A theoretical and practical course.
Daily from 1:00–3:00 throughout the year.
DRS. BATES, JACQUE, AND BRANNAN.
Also a preliminary course in Laryngoscopy.
DRS. TORRISON AND HAMMON.
These courses occupy 24 hours and constitute .4M.

3a. **Physical Examination of the Healthy Chest.**—A twelve-hour course offered to sections of 12 men.
Tues. and Sat., 10:00–11:00.
Tuesday, 4:00–6:00. .2M.
DRS. HALL AND RAYCROFT.

### SENIOR YEAR

4. **Diseases of the Chest, Throat, and Nose.**—A Didactic course. A continuation of Course 1 in diseases of the chest together with some of the principal diseases of the throat and nose. .6Mj.
Winter Quarter, 1902, Tues., Thurs., Sat., 8:00.
PROFESSOR INGALS, AND ASSOCIATE PROF. RHODES.

5. **College Clinic in Diseases of Chest, Throat, and Nose.** .2Mj.
Each Quarter. Wed. 2:00–4:00.
Winter Quarter. PROFESSOR INGALS.
Spring Quarter. ASSOCIATE PROF. RHODES.

6. **Diseases of the Chest.**—A hospital clinical course. .2Mj.
Wed., 8:00–9:30 throughout the year, classes limited to small groups. Each group one term.
Winter Quarter. DR. J. A. ROBISON.
Spring Quarter. DR. DOLAMORE.

7. **Diseases of the Chest, Throat, and Nose.**—A recitation course, supplementing Courses 4 and 5.
Winter Quarter, Mon., 9:00. .2Mj.
DRS. BATES AND RAYCROFT.

8. **Laryngology.**—A practical course in the Dispensary.
Daily, 1:00–3:00. Each section 2 weeks. .2M.
Winter Quarter.
DRS. FREER, JACQUE, BRANNAN.
Spring Quarter.
DRS. TORRISON, FREER, HAMMON.

9. **Physical Diagnosis.**—An advanced course for small sections, each section 2 weeks. Daily. 2:00–4:00. .2M.
ASSISTANT PROF. WHALEN, DRS. HALL AND RAYCROFT.

10. **Intubation.**—A practical course. .2M.
Winter Quarter. Daily, 1:00–3:00.
ASSISTANT PROF. WHALEN AND DR. TORRISON.

11. **Seminar.**—Selected subjects in Diseases of the Chest, Throat, and Nose.
Winter, and Spring Quarters.
PROF. INGALS, ASSOCIATE PROF. RHODES, AND DR. COLWELL.

This course will be offered only to those who have completed their Junior work in this department with an *excellent* grade.

It will consist of twenty elective clinical or didactic lectures, upon each of which the student shall present an abstract of from 300 to 500 words; also a course of reading on subjects to be assigned, and thesis upon the same.

The credit according to the quality of the work done will be .1 to 1Mj.

12. **A Clinical Course** at the West Side Hebrew Dispensary, in the Diseases of the Throat, Nose, and Ear, classes limited to eight students. Each course covers one term (six weeks). (Grouped with VII–27*a*.) .4M.
Mon., Thurs., 2:00–4:00, throughout the year.
ASSISTANT CLINICAL PROFESSOR GEORGE MORGENTHAU AND DR. L. E. GORDON.

13. **An Evening Clinical Course** at the Cook County Hospital. .2Mj.
Tues., 7:00–8:00; Winter and Spring Quarters, 1902. DR. DOLAMORE.

There will also be a clinic at the Cook County Hospital Tues., 2:00–3:00 P.M., given by DR. JOHN A. ROBISON, to which all students are invited. (See Course 6.)

14. **Lecture Course,** dealing with special diseases of the chest, throat, and nose. A continuation of Course 4. .2Mj.
Mon., 9:00–10:00; Spring Quarter.
DR. ———.

## XI. DEPARTMENT OF OPHTHALMOLOGY AND OTOLOGY

### OFFICERS OF INSTRUCTION

Professor FERDINAND C. HOTZ
Assistant Professors CASSIUS D. WESTCOTT, WILLIAM H. WILDER
Instructor, E. T. DICKERMAN
Assistants, CASSIUS C. ROGERS, L. E. SCHWARZ, GEORGE E. SHAMBAUGH, E. V. L. BROWN, BROWN PUSEY, HENRY R. BOETTCHER
Clinical Assistant, FRANK E. LaFORCE

AT THE WEST SIDE HEBREW DISPENSARY

Assistant Clinical Professor (*extra-mural*), ALBERT B. HALE
Clinical Assistant (*extra-mural*), B. I. STRAUSS

AT THE ILLINOIS CHARITABLE EYE AND EAR INFIRMARY

Assistant Clinical Professor (*extra-mural*) OSCAR DODD

### COURSES OF INSTRUCTION

1. **A Recitation Course.**—In Diseases of the Eye and Ear. In this course the student will acquire a theoretical knowledge of the nature and treatment of the diseases of the eye and ear. These recitations will be made comprehensive by the aid of illustrations of the various diseases and the exhibition of pathological specimens. The text-books used are *May* on the Eye and *Barr* on the Ear. .6Mj.

   Winter Quarter.
   Assistant Prof. Westcott and Dr. Rogers.
   Spring Quarter.
   Assistant Prof. Wilder and Dr. Shambaugh.
   8:00–9:00 a.m., Mon., Wed., Fri.

2. **Clinical Lecture Course.**—By Professor Hotz, every Friday from 2:00–4:00. Selected cases, showing the various stages of principal Diseases of the Eye and Ear, will be exhibited, their diagnostic symptoms thoroughly demonstrated, and their treatment carefully discussed. There will also be an opportunity of witnessing all the operations upon the Eye and Ear. Each quarter's work constitutes .2Mj.

3. **Course in Ophthalmoscopy.**—The student is taught the use of the ophthalmoscope for the examination of the interior of the eyeball and for retinoscopy. He is furnished artificial eyes to practice on and then allowed under the personal supervision of the instructor to examine normal and pathologic eye grounds of patients. Each student must provide himself with an ophthalmoscope. These courses are given to sections, the number in each section being limited to ten students. .4M.

   *At the College*, Mon., Wed., 3:00–4:00; six weeks' course.
   Winter Quarter.
   Drs. Brown and Boettcher.
   Spring Quarter.
   Drs. Schwarz and Brown.

3A. At the West Side Hebrew Dispensary (*extra-mural*). .4M.

   Mon., Thurs., 2:00–4:00, throughout the quarter.
   Assistant Clinical Prof. Albert B. Hale.

4. **Clinical Courses on Diseases of the Eye.**—In the Central Free Dispensary, by Drs. Schwarz, Brown, Boettcher; every day from 2:00–3:00 to sections of ten students. Each section to attend two weeks. .2M.

5. **Clinical Course on Diseases of the Ear.**—In the Central Free Dispensary, by Drs. Dickerman, Rogers, Shambaugh, daily from 1:00–2:00 to sections of ten students. The attendance upon these Dispensary Clinics is particularly valuable because it affords the student the opportunity of personally examining patients and watching the progress of cases from day to day. .2M.

6. **Course in Clinical Ophthalmology.**—At the Illinois Charitable Eye and Ear Infirmary; Wed., Sat., 2:00–4:00. Assistant Prof. Wilder and Assistant Clinical Prof. Dodd.

7. **Clinical Otology.**—A clinical course in Diseases of the Ear at the Illinois Charitable Eye and Ear Infirmary; each term throughout the year. Tues., Sat., 2:00–4:00.
   Classes limited to twelve students. .4M.
   Dr. Dickerman.

8. **Clinical Ophthalmology.**—At the West Side Hebrew Dispensary (*extra-mural*). Each course extends through one term (six weeks) and is limited to ten students. (Grouped with VII–27*c*.)
   Wed., Sat., 2:00–4:00 p.m. .4Mj.
   Assistant Clinical Prof. Albert B. Hale and Dr. B. I. Strauss.

9. **Demonstration Course on the Anatomy of the Ear.**—By Dr. Shambaugh. Six weeks; Fri., 8:00–10:00. Class limited to ten students.

## XII. DEPARTMENT OF SKIN, GENITO-URINARY, AND VENEREAL DISEASES

### OFFICERS OF INSTRUCTION

Professor JAMES NEVINS HYDE
Associate Professor FRANK HUGH MONTGOMERY
Instructor ALFRED SCHALEK
Associate ERNEST L. McEWEN, OLIVER S. ORMSBY
Assistant WILLIAM A. QUINN

### INTRODUCTORY

The work of this Department is elective and offered to members of the senior class. Instruction is given by clinical teaching both in the College amphitheater and in the Dispensary; by recitations; and by clinical, bacteriological, and pathologic demonstrations to small classes.

Instruction in this Department is supplemented by ample use of the large collection of dermatological plates, atlases, and photographs arranged in cases in proximity to the upper amphitheater: also by use of the Baretta models procured in Paris for the use of this Department. The text-books employed are Hyde and Montgomery's *On the Skin*, and Hyde and Montgomery's *Manual of Syphilis and the Venereal Diseases.*

### COURSES OF INSTRUCTION

#### Senior Year

1. **Skin, Genito-Urinary, and Venereal Diseases.** By Drs. Schalek and Ormsby. A recitation and conference course given to the class in small sections.
   .6Mj. Tues., Thurs., Sat., 9:00.
   Each quarter throughout the year.
   One section each quarter.

2. **Clinical Course.**—Arena Clinic, by Professor Hyde or Associate Professor Montgomery. A clinical course on the subject of the Diseases of the Skin, of the Genito-Urinary Organs, and on Venereal Diseases. This clinic has been conducted in the College for more than twenty years, and is attended by a large number of outpatients of both sexes and all ages.
   Mon., Fri., 2:00–4:00. Throughout the year.
   This course occupies four hours weekly throughout the year. Each quarter's work constitutes .4Mj.

3. **Demonstration Course.**—By Associate Professor Montgomery. A practical course of clinical, pathologic, and bacteriologic demonstrations in skin and venereal diseases, given to the class in sections of not more than ten.
   Mon., Fri., 2:00–4:00.
   This course occupies four hours weekly during the Winter Quarter. Each term's (six weeks) work constitutes a .4M.

4. **Genito-Urinary Diseases.**—A clinical course in diseases of the genito-urinary tract. .4Mj.
   Mon., Fri., 4:00–6:00.
   Throughout the year.
   Limited to 48 students. Each Quarter.
   Associate Professor Belfield.

5. **Clinical Course in the Central Free Dispensary.** By DRS. SCHALEK, ORMSBY, AND QUINN. A clinical course given to the class in small sections in the Dermatological and Genito-Urinary Department of the Central Free Dispensary. The student is here brought in personal contact with the patients and required to examine and prescribe for them as he would in private practice. .2M.

   Daily, 1:00–3:00.

   In sections: each section occupies twelve hours weekly for two weeks.

6. **Histopathology and Bacteriology of the Skin.** A demonstration course including instruction and practical work in methods peculiar to the study of cutaneous pathology and bacteriology.

   Tues., Fri., 4:00–6:00. Spring Quarter.
   DR. ORMSBY.

   Limited to eight students. Each term constitutes a .4M.

---

## XIII. PROFESSORIAL LECTURES

**Course I.** Consisting of six lectures by Judge Freeman.

Wed., 1:00–2:00; Tues., Thurs., 5:00–6:00.
DR. GILL.
Second Term, Winter Quarter.

Five lectures on Life Insurance Examination will be given during the Winter Quarter by Drs. J. W. Fisher and Charles E. Albright of the Northwestern Mutual Life Insurance Co. Topics and hours to be announced.

2. **The History of Medicine.**—A lecture course by ——— —————.

Winter Quarter, 1902. Hours to be announced.
Optional course.

Lectures on subjects related to the sciences of Physics, Chemistry, and Biology, in their relation to medicine, will be given during the Winter and Spring Quarters of 1902. Detailed statement of these courses will be announced later.

---

A summary of the courses offered in each quarter is furnished in the Schedule at Hours furnished to each student at the College office.

The Annual Announcement for the Summer and Autumn Quarters of 1902, and the Winter and Spring Quarters, 1903, will be issued about April 1, 1902.

---

## FELLOWSHIPS, HOSPITAL INTERNES, AND PRIZES

### FELLOWSHIPS

The following Fellowships, each of the value of four hundred dollars annually, one in chemistry, two in pathology, one in materia medica and therapeutics, one in medicine, and one in surgery are awarded at each Commencement.

The Walter S. Haines Fellowship in chemistry is awarded to the member of the graduating class recognized as in every way best qualified for the position. He devotes the year succeeding his appointment to original investigation in medical chemistry under the direction of the professor of that Chair in the laboratories of the College. He devotes some time of each day in the College year to the instruction of students, and has opportunity to attend the clinics and pursue other lines of collegiate study.

Two Fellowships in pathology are established with a similar end in view and under corresponding regulations. These Fellows engage in original research under the direction of the Professor of Pathology, and may take part in the work of instruction of students.

A Fellowship in medicine and a Fellowship in surgery have been established with similar duties and on a like basis.

### HOSPITAL INTERNES

Positions as internes in the Presbyterian, the Cook County Hospital, the Michael Reese Hospital, the St. Joseph Hospital, the St. Elizabeth's Hospital, the St. Luke's Hospital, the Augustana Hospital, the Chicago Hospital, the Alexian Brothers Hospital, the Passavant Hospital, the Chicago Policlinic, the German Hospital, the Norwegian Hospital, the Illinois Charitable Eye and Ear Infirmary, and in a much larger list of institutions outside of the city of Chicago which make appointments from the roll of qualified students are open each spring to graduates through a competitive examination held by the respective hospital staffs.

The occupants of these positions receive their board and lodging, and acquire experience in every department of practical medicine and surgery.

### PRIZES

#### The Benjamin Rush Prize

A medal of the value of fifty dollars is given by the Faculty at each Commencement to that member of the graduating class who passes the highest examination in every department of medicine represented that year in the examination for the degree.

#### The Daniel Brainard Prize

A medal is annually given by the Faculty to the student who makes and presents to the College Museum the best accepted dissection in Surgical Anatomy.

#### The Freer Prizes

These prizes are derived from the income of a fund presented to the College by the late Nathan M. Freer, of the Board of Trustees, as a memorial of the names of two honored members of his family long identified with the highest interests of this institution.

The J. W. Freer Medal is awarded as a first prize to that member of the Junior class who presents the best written essay on one of the themes annually announced for competition to that class. A second prize is awarded to the next successful competitor. The three subjects from which selections may be made, one of which only can be chosen by each competitor, are announced to the class early in the collegiate year, the essays being submitted to the Faculty on the first of the ensuing April. The subjects for competition for the session of 1901–2 will be given by the Department of Medicine.

The L. C. P. Freer Medal is offered for the year 1901–2 as a first prize to that member of the Sophomore class who presents the best essay on any subject connected with anatomy. Students should consult the Professor of Pathology in regard to selection of topic for this prize. A second prize is awarded to the next most successful of the competitors. This prize will be competed for by students in the medical course of the University. The essays are required to be placed in the hands of the Faculty by April, 1902.

#### The Edward L. Holmes Prize

In honor of the late Edward L. Holmes, for many years the professor of Diseases of the Eye and Ear in Rush Medical College, and for several years its president, and who during his long career rendered distinguished services to the institution, the trustees have established the Edward L. Holmes prize for original research, to consist of a table and scholarship for one season, at the Marine Biological Laboratory at Wood's Holl, Mass.

This prize is offered in recognition of the great service which is rendered to the medical sciences by research work in biology. The prize will be offered each year to members of the Junior class, and will be awarded for the best piece of work on original research performed in any of the laboratories of Rush Medical College. The recipient of the prize will defray his personal expenses.

#### The De Laskie Miller Prize

This prize is annually given to the student who does the best work in obstetrics and gynecology.

---

## FELLOWSHIPS AND SCHOLARSHIPS AT THE UNIVERSITY OF CHICAGO

1. *University Fellowships.* There are sixty University fellowships, divided as follows:
    1) Twenty fellowships, each yielding the sum of $520 annually, university fees to be paid out of this sum.
    2) Twenty fellowships, each yielding the sum of $320 annually, university fees to be paid out of this sum.
    3) Twenty graduate fellowships of equal rank with other university fellowships, yielding a sum equal to the university fees for three quarters.

2. *Special Fellowships.* In addition to the regular University Fellowships mentioned above, there are special Fellowships offered by individuals. These vary somewhat in number and amount from year to year. At present they are as follows:
   1) The *William A. and Fanny C. Talcott Fellowships and Scholarships.* In 1896 Wm. A. Talcott, of Rockford, Ill., endowed four Fellowships and Scholarships, two of which bear his name and two the name of his wife, Fanny C. Talcott. They are intended primarily for the benefit of graduates of the Rockford College, but in the absence of such beneficiaries may be assigned to others. They pay the tuition fees of those appointed to them.
   2) The *Bucknell Fellowship*, yielding $400, offered by Mr. Charles Miller, Franklin, Pa., is open to graduates of Bucknell University. The appointment to this fellowship is made by the Faculty of Bucknell University.
   3) The *Vassar Fellowship*, yielding $400, offered by friends of Vassar College. Open to graduates of Vassar College. The appointment to this fellowship is made by the Faculty of Vassar College.
   4) The *Joseph B. Loewenthal Fellowship in Chemistry*, endowed by Mr. Berthold Loewenthal, of Chicago, as a memorial of his son, Joseph B. Loewenthal. It yields about $420 to the incumbent annually appointed.
   5) Three special fellowships, yielding $320, $420, and $520 respectively, offered by friends of the University.

3. *Duties of Fellows.** Each student on a University Fellowship is expected to render assistance of some kind in connection with the work of the University. This assistance consists, for the most part, in service, *a*) as an instructor, either in the colleges of the University or in the affiliated colleges; *b*) as an assistant in reading examination papers; *c*) as an assistant on a University journal; or *d*) as an assistant in one of the departmental libraries, laboratories, or museums. In no case will a student be expected or allowed to devote so much time to the work here indicated as to interfere seriously with his study.

4. *Graduate Scholarships.* Twenty scholarships are assigned annually to students who have completed with honor the work of a Senior College.

   Students receiving graduate scholarships will be expected to render assistance in the libraries. laboratories, and museums, in amount to be determined by the Board of Libraries, Laboratories, and Museums.

5. *Special Graduate Scholarships.*
   1) The *Zuinglius Grover Memorial Scholarship* has been endowed by the Alumnæ of Dearborn Seminary of Chicago in memory of the founder of that Seminary. It provides for the tuition fees of "a woman in the undergraduate department."
   2) The *Lillian Gertrude Selz Scholarship*, endowed by Mr. Morris Selz and his sons E. F. and J. Harry Selz as a memorial of Lillian Gertrude Selz, provides for something more than the tuition fees of a student.
   3) The *Elbert H. Shirk Scholarship*, endowed by Mr. Milton Shirk, of Peru, Indiana, Mr. E. W. Shirk, of Chicago, and Mrs. Alice Shirk Edwards, of Peru, Indiana, as a memorial of their father, provides for the tuition fees of a student.
   4) The *Henry C. Lytton Scholarship*, endowed by Mr. Henry C. Lytton, of Chicago, provides for the tuition fees of a student.
   5) The *Catherine M. White Scholarships.* The late Catherine M. White, of Chicago, made provision in her will for the endowment of three (3) Scholarships, each providing for the tuition fees of a student.
   6) The *Andrew McLeish Scholarship*, endowed by Mr. Andrew McLeish, of Chicago, provides for the tuition fees of a student.
   7) The *Enos M. Barton Scholarship*, endowed by Mr. E. M. Barton, of Chicago, provides for the tuition fees of a student.
   8) A Scholarship not yet named has been established which will provide annually for the tuition fees of a student.
   9. The National Society of the Colonial Dames of America in the State of Illinois has made provision for two special Scholarships in History to continue five years.

---

*Students desiring fuller information concerning fellowships and the conditions for application, will write for the Circular of Information for the Graduate Schools.

## MEDICAL SOCIETIES

The fact that a large number of medical men practice in Chicago has led to the establishment of a number of medical societies, general and special. Among the more interesting to medical students in the early years of their course is the Chicago Pathological Society. A large number of clinical societies, notably the Chicago Medical Society and its various branches, will interest the student particularly in the later years of his course.

The Students' Medical Society of Rush Medical College meets monthly, on Friday evening, in the Laboratory Building. The research work of students in the laboratories and clinics is here reported, and current topics of medical interest discussed.

The University of Chicago Medical Club meets on the first and third Monday evenings of each month in the amphitheater of the Kent Chemical Laboratory at 8:15. At the meetings of this society the advanced work and original research of the various laboratories will be reported, and topics of general medical and scientific interest will from time to time be discussed. The meetings will be open to medical students. The society holds no meetings during the Summer Quarter.